

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|ab\rangle \langle ef|H|di\rangle \langle gh|H|fj\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_c - E_e)(E_d - E_e)(E_f - E_i)(E_g + E_h - E_i - E_j)} \quad (1)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|ab\rangle \langle ef|H|dg\rangle \langle gh|H|ij\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_e)(E_d - E_e)(E_f - E_g)(E_f + E_h - E_i - E_j)} \quad (2)$$

$$\frac{1}{N!}(-1)^{7+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|ab\rangle \langle ef|H|dj\rangle \langle gh|H|ef\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_c - E_i)(E_d - E_i)(E_e + E_f - E_i - E_j)(E_g + E_h - E_i - E_j)} \quad (3)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ab\rangle \langle ef|H|di\rangle \langle gh|H|ej\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_g)(E_d - E_g)(E_e + E_f - E_g - E_i)(E_f + E_h - E_i - E_j)} \quad (4)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|ab\rangle \langle ef|H|dg\rangle \langle gh|H|ej\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_i)(E_d - E_i)(E_e + E_f - E_g - E_i)(E_f + E_h - E_i - E_j)} \quad (5)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ab\rangle \langle ef|H|dh\rangle \langle gh|H|ij\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_c - E_g)(E_d - E_g)(E_e + E_f - E_g - E_h)(E_e + E_f - E_i - E_j)} \quad (6)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|ab\rangle \langle ef|H|ij\rangle \langle gh|H|df\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_c - E_e)(E_d - E_e)(E_d + E_f - E_i - E_j)(E_g + E_h - E_i - E_j)} \quad (7)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|ab\rangle \langle ef|H|gi\rangle \langle gh|H|dj\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_e)(E_d - E_e)(E_d + E_f - E_g - E_i)(E_f + E_h - E_i - E_j)} \quad (8)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ab\rangle \langle ef|H|ij\rangle \langle gh|H|de\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_g)(E_d - E_g)(E_d + E_e + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (9)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|ab\rangle \langle ef|H|gj\rangle \langle gh|H|de\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_i)(E_d - E_i)(E_d + E_e + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (10)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ab\rangle \langle ef|H|hi\rangle \langle gh|H|dj\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_c - E_g)(E_d - E_g)(E_d + E_e + E_f - E_g - E_h - E_i)(E_e + E_f - E_i - E_j)} \quad (11)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|ab\rangle \langle ef|H|gh\rangle \langle gh|H|dj\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_c - E_i)(E_d - E_i)(E_d + E_e + E_f - E_g - E_h - E_i)(E_e + E_f - E_i - E_j)} \quad (12)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|ab\rangle \langle ef|H|gi\rangle \langle gh|H|fj\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_c - E_e)(E_d - E_e)(E_d + E_f - E_g - E_i)(E_d + E_h - E_i - E_j)} \quad (13)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|ab\rangle \langle ef|H|gh\rangle \langle gh|H|ij\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_c - E_e)(E_d - E_e)(E_d + E_f - E_g - E_h)(E_d + E_f - E_i - E_j)} \quad (14)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ab\rangle \langle ef|H|ij\rangle \langle gh|H|ef\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_c - E_g)(E_d - E_g)(E_d + E_e + E_f - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (15)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|ab\rangle \langle ef|H|gj\rangle \langle gh|H|ef\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_c - E_i)(E_d - E_i)(E_d + E_e + E_f - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (16)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ab\rangle \langle ef|H|hi\rangle \langle gh|H|ej\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_c - E_g)(E_d - E_g)(E_d + E_e + E_f - E_g - E_h - E_i)(E_d + E_f - E_i - E_j)} \quad (17)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|ab\rangle \langle ef|H|gh\rangle \langle gh|H|ej\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_c - E_i)(E_d - E_i)(E_d + E_e + E_f - E_g - E_h - E_i)(E_d + E_f - E_i - E_j)} \quad (18)$$

$$\frac{1}{N!}(-1)^{7+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|ab\rangle \langle ef|H|cd\rangle \langle gh|H|fj\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_e - E_i)(E_c + E_d - E_e - E_i)(E_f - E_i)(E_g + E_h - E_i - E_j)} \quad (19)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ab\rangle \langle ef|H|cd\rangle \langle gh|H|ij\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_e - E_g)(E_c + E_d - E_e - E_g)(E_f - E_g)(E_f + E_h - E_i - E_j)} \quad (20)$$

$$\frac{1}{N!}(-1)^{8+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|ab\rangle \langle ef|H|cd\rangle \langle gh|H|ef\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_i - E_j)(E_c + E_d - E_i - E_j)(E_e + E_f - E_i - E_j)(E_g + E_h - E_i - E_j)} \quad (21)$$

$$\frac{1}{N!}(-1)^{7+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ab\rangle \langle ef|H|cd\rangle \langle gh|H|ej\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_g - E_i)(E_c + E_d - E_g - E_i)(E_e + E_f - E_g - E_i)(E_f + E_h - E_i - E_j)} \quad (22)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ab\rangle \langle ef|H|cd\rangle \langle gh|H|ij\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_g - E_h)(E_c + E_d - E_g - E_h)(E_e + E_f - E_g - E_h)(E_e + E_f - E_i - E_j)} \quad (23)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|ab\rangle \langle ef|H|ci\rangle \langle gh|H|dj\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_e - E_f)(E_c + E_d - E_e - E_f)(E_d - E_i)(E_g + E_h - E_i - E_j)} \quad (24)$$

$$\frac{1}{N!}(-1)^{7+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|ab\rangle \langle ef|H|cj\rangle \langle gh|H|df\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_e - E_i)(E_c + E_d - E_e - E_i)(E_d + E_f - E_i - E_j)(E_g + E_h - E_i - E_j)} \quad (25)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ab\rangle \langle ef|H|ci\rangle \langle gh|H|dj\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_e - E_g)(E_c + E_d - E_e - E_g)(E_d + E_f - E_g - E_i)(E_f + E_h - E_i - E_j)} \quad (26)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|ab\rangle \langle ef|H|cg\rangle \langle gh|H|dj\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_e - E_i)(E_c + E_d - E_e - E_i)(E_d + E_f - E_g - E_i)(E_f + E_h - E_i - E_j)} \quad (27)$$

$$\frac{1}{N!}(-1)^{7+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ab\rangle \langle ef|H|cj\rangle \langle gh|H|de\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_g - E_i)(E_c + E_d - E_g - E_i)(E_d + E_e + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (28)$$

$$\frac{1}{N!}(-1)^{7+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|ab\rangle \langle ef|H|cg\rangle \langle gh|H|de\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_i - E_j)(E_c + E_d - E_i - E_j)(E_d + E_e + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (29)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ab\rangle \langle ef|H|ci\rangle \langle gh|H|dj\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_g - E_h)(E_c + E_d - E_g - E_h)(E_d + E_e + E_f - E_g - E_h - E_i)(E_e + E_f - E_i - E_j)} \quad (30)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ab\rangle \langle ef|H|ch\rangle \langle gh|H|dj\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_g - E_i)(E_c + E_d - E_g - E_i)(E_d + E_e + E_f - E_g - E_h - E_i)(E_e + E_f - E_i - E_j)} \quad (31)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|ab\rangle \langle ef|H|cg\rangle \langle gh|H|ij\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_e - E_f)(E_c + E_d - E_e - E_f)(E_d - E_g)(E_d + E_h - E_i - E_j)} \quad (32)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ab\rangle \langle ef|H|ci\rangle \langle gh|H|fj\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_e - E_g)(E_c + E_d - E_e - E_g)(E_d + E_f - E_g - E_i)(E_d + E_h - E_i - E_j)} \quad (33)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|ab\rangle \langle ef|H|cg\rangle \langle gh|H|fj\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_e - E_i)(E_c + E_d - E_e - E_i)(E_d + E_f - E_g - E_i)(E_d + E_h - E_i - E_j)} \quad (34)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ab\rangle \langle ef|H|ch\rangle \langle gh|H|ij\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_e - E_g)(E_c + E_d - E_e - E_g)(E_d + E_f - E_g - E_h)(E_d + E_f - E_i - E_j)} \quad (35)$$

$$\frac{1}{N!}(-1)^{7+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ab\rangle \langle ef|H|cj\rangle \langle gh|H|ef\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_g - E_i)(E_c + E_d - E_g - E_i)(E_d + E_e + E_f - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (36)$$

$$\frac{1}{N!}(-1)^{7+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|ab\rangle \langle ef|H|cg\rangle \langle gh|H|ef\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_i - E_j)(E_c + E_d - E_i - E_j)(E_d + E_e + E_f - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (37)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ab\rangle \langle ef|H|ci\rangle \langle gh|H|ej\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_g - E_h)(E_c + E_d - E_g - E_h)(E_d + E_e + E_f - E_g - E_h - E_i)(E_d + E_f - E_i - E_j)} \quad (38)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ab\rangle \langle ef|H|ch\rangle \langle gh|H|ej\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_g - E_i)(E_c + E_d - E_g - E_i)(E_d + E_e + E_f - E_g - E_h - E_i)(E_d + E_f - E_i - E_j)} \quad (39)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|ab\rangle \langle ef|H|ij\rangle \langle gh|H|cd\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_e - E_f)(E_c + E_d - E_e - E_f)(E_c + E_d - E_i - E_j)(E_g + E_h - E_i - E_j)} \quad (40)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ab\rangle \langle ef|H|ij\rangle \langle gh|H|cd\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_e - E_g)(E_c + E_d - E_e - E_g)(E_c + E_d + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (41)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|ab\rangle \langle ef|H|gj\rangle \langle gh|H|cd\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_e - E_i)(E_c + E_d - E_e - E_i)(E_c + E_d + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (42)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ab\rangle \langle ef|H|hj\rangle \langle gh|H|cd\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_g - E_i)(E_c + E_d - E_g - E_i)(E_c + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_e + E_f - E_i - E_j)} \quad (43)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|ab\rangle \langle ef|H|gh\rangle \langle gh|H|cd\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_i - E_j)(E_c + E_d - E_i - E_j)(E_c + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_e + E_f - E_i - E_j)} \quad (44)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|ab\rangle \langle ef|H|gi\rangle \langle gh|H|cj\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_e - E_f)(E_c + E_d - E_e - E_f)(E_c + E_d - E_g - E_i)(E_d + E_h - E_i - E_j)} \quad (45)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ab\rangle \langle ef|H|ij\rangle \langle gh|H|cf\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_e - E_g)(E_c + E_d - E_e - E_g)(E_c + E_d + E_f - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (46)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|ab\rangle \langle ef|H|gj\rangle \langle gh|H|cf\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_e - E_i)(E_c + E_d - E_e - E_i)(E_c + E_d + E_f - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (47)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ab\rangle \langle ef|H|hi\rangle \langle gh|H|cj\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_e - E_g)(E_c + E_d - E_e - E_g)(E_c + E_d + E_f - E_g - E_h - E_i)(E_d + E_f - E_i - E_j)} \quad (48)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|ab\rangle \langle ef|H|gh\rangle \langle gh|H|cj\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_e - E_i)(E_c + E_d - E_e - E_i)(E_c + E_d + E_f - E_g - E_h - E_i)(E_d + E_f - E_i - E_j)} \quad (49)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ab\rangle \langle ef|H|ij\rangle \langle gh|H|ce\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_g - E_h)(E_c + E_d - E_g - E_h)(E_c + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (50)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ab\rangle \langle ef|H|hj\rangle \langle gh|H|ce\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_g - E_i)(E_c + E_d - E_g - E_i)(E_c + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (51)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|ab\rangle \langle ef|H|gh\rangle \langle gh|H|ce\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_i - E_j)(E_c + E_d - E_i - E_j)(E_c + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (52)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|ab\rangle \langle ef|H|gh\rangle \langle gh|H|ij\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_e - E_f)(E_c + E_d - E_e - E_f)(E_c + E_d - E_g - E_h)(E_c + E_d - E_i - E_j)} \quad (53)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ab\rangle \langle ef|H|hi\rangle \langle gh|H|fj\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_e - E_g)(E_c + E_d - E_e - E_g)(E_c + E_d + E_f - E_g - E_h - E_i)(E_c + E_d - E_i - E_j)} \quad (54)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|ab\rangle \langle ef|H|gh\rangle \langle gh|H|fj\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_e - E_i)(E_c + E_d - E_e - E_i)(E_c + E_d + E_f - E_g - E_h - E_i)(E_c + E_d - E_i - E_j)} \quad (55)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ab\rangle \langle ef|H|ij\rangle \langle gh|H|ef\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_g - E_h)(E_c + E_d - E_g - E_h)(E_c + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_c + E_d - E_i - E_j)} \quad (56)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ab\rangle \langle ef|H|hj\rangle \langle gh|H|ef\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_g - E_i)(E_c + E_d - E_g - E_i)(E_c + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_c + E_d - E_i - E_j)} \quad (57)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|ae\rangle \langle ef|H|bi\rangle \langle gh|H|fj\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_c - E_d)(E_b - E_e)(E_f - E_i)(E_g + E_h - E_i - E_j)} \quad (58)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|ae\rangle \langle ef|H|bg\rangle \langle gh|H|ij\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_d)(E_b - E_e)(E_f - E_g)(E_f + E_h - E_i - E_j)} \quad (59)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|ai\rangle \langle ef|H|bj\rangle \langle gh|H|ef\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_c - E_d)(E_b - E_i)(E_e + E_f - E_i - E_j)(E_g + E_h - E_i - E_j)} \quad (60)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|ag\rangle \langle ef|H|bi\rangle \langle gh|H|ej\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_d)(E_b - E_g)(E_e + E_f - E_g - E_i)(E_f + E_h - E_i - E_j)} \quad (61)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|ai\rangle \langle ef|H|bg\rangle \langle gh|H|ej\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_d)(E_b - E_i)(E_e + E_f - E_g - E_i)(E_f + E_h - E_i - E_j)} \quad (62)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|ag\rangle \langle ef|H|bh\rangle \langle gh|H|ij\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_c - E_d)(E_b - E_g)(E_e + E_f - E_g - E_h)(E_e + E_f - E_i - E_j)} \quad (63)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|ai\rangle \langle ef|H|bd\rangle \langle gh|H|fj\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_c - E_e)(E_b + E_d - E_e - E_i)(E_f - E_i)(E_g + E_h - E_i - E_j)} \quad (64)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|ag\rangle \langle ef|H|bd\rangle \langle gh|H|ij\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_e)(E_b + E_d - E_e - E_g)(E_f - E_g)(E_f + E_h - E_i - E_j)} \quad (65)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|ae\rangle \langle ef|H|bd\rangle \langle gh|H|fj\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_c - E_i)(E_b + E_d - E_e - E_i)(E_f - E_i)(E_g + E_h - E_i - E_j)} \quad (66)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ae\rangle \langle ef|H|bd\rangle \langle gh|H|ij\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_g)(E_b + E_d - E_e - E_g)(E_f - E_g)(E_f + E_h - E_i - E_j)} \quad (67)$$

$$\frac{1}{N!}(-1)^{7+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|aj\rangle \langle ef|H|bd\rangle \langle gh|H|ef\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_c - E_i)(E_b + E_d - E_i - E_j)(E_e + E_f - E_i - E_j)(E_g + E_h - E_i - E_j)} \quad (68)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ai\rangle \langle ef|H|bd\rangle \langle gh|H|ej\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_g)(E_b + E_d - E_g - E_i)(E_e + E_f - E_g - E_i)(E_f + E_h - E_i - E_j)} \quad (69)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|ag\rangle \langle ef|H|bd\rangle \langle gh|H|ej\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_i)(E_b + E_d - E_g - E_i)(E_e + E_f - E_g - E_i)(E_f + E_h - E_i - E_j)} \quad (70)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ah\rangle \langle ef|H|bd\rangle \langle gh|H|ij\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_c - E_g)(E_b + E_d - E_g - E_h)(E_e + E_f - E_g - E_h)(E_e + E_f - E_i - E_j)} \quad (71)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|af\rangle \langle ef|H|bi\rangle \langle gh|H|dj\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_c - E_e)(E_b + E_d - E_e - E_f)(E_d - E_i)(E_g + E_h - E_i - E_j)} \quad (72)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|ai\rangle \langle ef|H|bj\rangle \langle gh|H|df\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_c - E_e)(E_b + E_d - E_e - E_i)(E_d + E_f - E_i - E_j)(E_g + E_h - E_i - E_j)} \quad (73)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|ag\rangle \langle ef|H|bi\rangle \langle gh|H|dj\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_e)(E_b + E_d - E_e - E_g)(E_d + E_f - E_g - E_i)(E_f + E_h - E_i - E_j)} \quad (74)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|ai\rangle \langle ef|H|bg\rangle \langle gh|H|dj\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_e)(E_b + E_d - E_e - E_i)(E_d + E_f - E_g - E_i)(E_f + E_h - E_i - E_j)} \quad (75)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|ae\rangle \langle ef|H|bj\rangle \langle gh|H|df\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_c - E_i)(E_b + E_d - E_e - E_i)(E_d + E_f - E_i - E_j)(E_g + E_h - E_i - E_j)} \quad (76)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ae\rangle \langle ef|H|bi\rangle \langle gh|H|dj\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_g)(E_b + E_d - E_e - E_g)(E_d + E_f - E_g - E_i)(E_f + E_h - E_i - E_j)} \quad (77)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|ae\rangle \langle ef|H|bg\rangle \langle gh|H|dj\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_i)(E_b + E_d - E_e - E_i)(E_d + E_f - E_g - E_i)(E_f + E_h - E_i - E_j)} \quad (78)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ai\rangle \langle ef|H|bj\rangle \langle gh|H|de\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_g)(E_b + E_d - E_g - E_i)(E_d + E_e + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (79)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|ag\rangle \langle ef|H|bj\rangle \langle gh|H|de\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_i)(E_b + E_d - E_g - E_i)(E_d + E_e + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (80)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|aj\rangle \langle ef|H|bg\rangle \langle gh|H|de\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_i)(E_b + E_d - E_i - E_j)(E_d + E_e + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (81)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ah\rangle \langle ef|H|bi\rangle \langle gh|H|dj\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_c - E_g)(E_b + E_d - E_g - E_h)(E_d + E_e + E_f - E_g - E_h - E_i)(E_e + E_f - E_i - E_j)} \quad (82)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ai\rangle \langle ef|H|bh\rangle \langle gh|H|dj\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_c - E_g)(E_b + E_d - E_g - E_i)(E_d + E_e + E_f - E_g - E_h - E_i)(E_e + E_f - E_i - E_j)} \quad (83)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|ag\rangle \langle ef|H|bh\rangle \langle gh|H|dj\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_c - E_i)(E_b + E_d - E_g - E_i)(E_d + E_e + E_f - E_g - E_h - E_i)(E_e + E_f - E_i - E_j)} \quad (84)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|af\rangle \langle ef|H|bg\rangle \langle gh|H|ij\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_c - E_e)(E_b + E_d - E_e - E_f)(E_d - E_g)(E_d + E_h - E_i - E_j)} \quad (85)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|ag\rangle \langle ef|H|bi\rangle \langle gh|H|fj\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_c - E_e)(E_b + E_d - E_e - E_g)(E_d + E_f - E_g - E_i)(E_d + E_h - E_i - E_j)} \quad (86)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|ai\rangle \langle ef|H|bg\rangle \langle gh|H|fj\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_c - E_e)(E_b + E_d - E_e - E_i)(E_d + E_f - E_g - E_i)(E_d + E_h - E_i - E_j)} \quad (87)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|ag\rangle \langle ef|H|bh\rangle \langle gh|H|ij\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_c - E_e)(E_b + E_d - E_e - E_g)(E_d + E_f - E_g - E_h)(E_d + E_f - E_i - E_j)} \quad (88)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ae\rangle \langle ef|H|bi\rangle \langle gh|H|fj\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_c - E_g)(E_b + E_d - E_e - E_g)(E_d + E_f - E_g - E_i)(E_d + E_h - E_i - E_j)} \quad (89)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|ae\rangle \langle ef|H|bg\rangle \langle gh|H|fj\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_c - E_i)(E_b + E_d - E_e - E_i)(E_d + E_f - E_g - E_i)(E_d + E_h - E_i - E_j)} \quad (90)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ae\rangle \langle ef|H|bh\rangle \langle gh|H|ij\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_c - E_g)(E_b + E_d - E_e - E_g)(E_d + E_f - E_g - E_h)(E_d + E_f - E_i - E_j)} \quad (91)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ai\rangle \langle ef|H|bj\rangle \langle gh|H|ef\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_c - E_g)(E_b + E_d - E_g - E_i)(E_d + E_e + E_f - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (92)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|ag\rangle \langle ef|H|bj\rangle \langle gh|H|ef\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_c - E_i)(E_b + E_d - E_g - E_i)(E_d + E_e + E_f - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (93)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|aj\rangle \langle ef|H|bg\rangle \langle gh|H|ef\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_c - E_i)(E_b + E_d - E_i - E_j)(E_d + E_e + E_f - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (94)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ah\rangle \langle ef|H|bi\rangle \langle gh|H|ej\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_c - E_g)(E_b + E_d - E_g - E_h)(E_d + E_e + E_f - E_g - E_h - E_i)(E_d + E_f - E_i - E_j)} \quad (95)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ai\rangle \langle ef|H|bh\rangle \langle gh|H|ej\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_c - E_g)(E_b + E_d - E_g - E_i)(E_d + E_e + E_f - E_g - E_h - E_i)(E_d + E_f - E_i - E_j)} \quad (96)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|ag\rangle \langle ef|H|bh\rangle \langle gh|H|ej\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_c - E_i)(E_b + E_d - E_g - E_i)(E_d + E_e + E_f - E_g - E_h - E_i)(E_d + E_f - E_i - E_j)} \quad (97)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|ai\rangle \langle ef|H|bc\rangle \langle gh|H|dj\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_e - E_f)(E_b + E_c + E_d - E_e - E_f - E_i)(E_d - E_i)(E_g + E_h - E_i - E_j)} \quad (98)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|af\rangle \langle ef|H|bc\rangle \langle gh|H|dj\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_e - E_i)(E_b + E_c + E_d - E_e - E_f - E_i)(E_d - E_i)(E_g + E_h - E_i - E_j)} \quad (99)$$

$$\frac{1}{N!}(-1)^{7+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|aj\rangle \langle ef|H|bc\rangle \langle gh|H|df\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_e - E_i)(E_b + E_c + E_d - E_e - E_i - E_j)(E_d + E_f - E_i - E_j)(E_g + E_h - E_i - E_j)} \quad (100)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ai\rangle \langle ef|H|bc\rangle \langle gh|H|dj\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_e - E_g)(E_b + E_c + E_d - E_e - E_g - E_i)(E_d + E_f - E_g - E_i)(E_f + E_h - E_i - E_j)} \quad (101)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|ag\rangle \langle ef|H|bc\rangle \langle gh|H|dj\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_e - E_i)(E_b + E_c + E_d - E_e - E_g - E_i)(E_d + E_f - E_g - E_i)(E_f + E_h - E_i - E_j)} \quad (102)$$

$$\frac{1}{N!}(-1)^{7+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|ae\rangle \langle ef|H|bc\rangle \langle gh|H|df\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_i - E_j)(E_b + E_c + E_d - E_e - E_i - E_j)(E_d + E_f - E_i - E_j)(E_g + E_h - E_i - E_j)} \quad (103)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ae\rangle \langle ef|H|bc\rangle \langle gh|H|dj\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_g - E_i)(E_b + E_c + E_d - E_e - E_g - E_i)(E_d + E_f - E_g - E_i)(E_f + E_h - E_i - E_j)} \quad (104)$$

$$\frac{1}{N!}(-1)^{7+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|aj\rangle \langle ef|H|bc\rangle \langle gh|H|de\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_g - E_i)(E_b + E_c + E_d - E_g - E_i - E_j)(E_d + E_e + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (105)$$

$$\frac{1}{N!}(-1)^{7+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|ag\rangle \langle ef|H|bc\rangle \langle gh|H|de\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_i - E_j)(E_b + E_c + E_d - E_g - E_i - E_j)(E_d + E_e + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (106)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ai\rangle \langle ef|H|bc\rangle \langle gh|H|dj\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_g - E_h)(E_b + E_c + E_d - E_g - E_h - E_i)(E_d + E_e + E_f - E_g - E_h - E_i)(E_e + E_f - E_i - E_j)} \quad (107)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ah\rangle \langle ef|H|bc\rangle \langle gh|H|dj\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_g - E_i)(E_b + E_c + E_d - E_g - E_h - E_i)(E_d + E_e + E_f - E_g - E_h - E_i)(E_e + E_f - E_i - E_j)} \quad (108)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|ag\rangle \langle ef|H|bc\rangle \langle gh|H|ij\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_e - E_f)(E_b + E_c + E_d - E_e - E_f - E_g)(E_d - E_g)(E_d + E_h - E_i - E_j)} \quad (109)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|af\rangle \langle ef|H|bc\rangle \langle gh|H|ij\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_e - E_g)(E_b + E_c + E_d - E_e - E_f - E_g)(E_d - E_g)(E_d + E_h - E_i - E_j)} \quad (110)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ai\rangle \langle ef|H|bc\rangle \langle gh|H|fj\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_e - E_g)(E_b + E_c + E_d - E_e - E_g - E_i)(E_d + E_f - E_g - E_i)(E_d + E_h - E_i - E_j)} \quad (111)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|ag\rangle \langle ef|H|bc\rangle \langle gh|H|fj\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_e - E_i)(E_b + E_c + E_d - E_e - E_g - E_i)(E_d + E_f - E_g - E_i)(E_d + E_h - E_i - E_j)} \quad (112)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ah\rangle \langle ef|H|bc\rangle \langle gh|H|ij\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_e - E_g)(E_b + E_c + E_d - E_e - E_g - E_h)(E_d + E_f - E_g - E_h)(E_d + E_f - E_i - E_j)} \quad (113)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ae\rangle \langle ef|H|bc\rangle \langle gh|H|fj\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_g - E_i)(E_b + E_c + E_d - E_e - E_g - E_i)(E_d + E_f - E_g - E_i)(E_d + E_h - E_i - E_j)} \quad (114)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ae\rangle \langle ef|H|bc\rangle \langle gh|H|ij\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_g - E_h)(E_b + E_c + E_d - E_e - E_g - E_h)(E_d + E_f - E_g - E_h)(E_d + E_f - E_i - E_j)} \quad (115)$$

$$\frac{1}{N!}(-1)^{7+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|aj\rangle \langle ef|H|bc\rangle \langle gh|H|ef\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_g - E_i)(E_b + E_c + E_d - E_g - E_i - E_j)(E_d + E_e + E_f - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (116)$$

$$\frac{1}{N!}(-1)^{7+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|ag\rangle \langle ef|H|bc\rangle \langle gh|H|ef\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_i - E_j)(E_b + E_c + E_d - E_g - E_i - E_j)(E_d + E_e + E_f - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (117)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ai\rangle \langle ef|H|bc\rangle \langle gh|H|ej\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_g - E_h)(E_b + E_c + E_d - E_g - E_h - E_i)(E_d + E_e + E_f - E_g - E_h - E_i)(E_d + E_f - E_i - E_j)} \quad (118)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ah\rangle \langle ef|H|bc\rangle \langle gh|H|ej\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_g - E_i)(E_b + E_c + E_d - E_g - E_h - E_i)(E_d + E_e + E_f - E_g - E_h - E_i)(E_d + E_f - E_i - E_j)} \quad (119)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|ai\rangle \langle ef|H|bj\rangle \langle gh|H|cd\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_e - E_f)(E_b + E_c + E_d - E_e - E_f - E_i)(E_c + E_d - E_i - E_j)(E_g + E_h - E_i - E_j)} \quad (120)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|af\rangle \langle ef|H|bj\rangle \langle gh|H|cd\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_e - E_i)(E_b + E_c + E_d - E_e - E_f - E_i)(E_c + E_d - E_i - E_j)(E_g + E_h - E_i - E_j)} \quad (121)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ai\rangle \langle ef|H|bj\rangle \langle gh|H|cd\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_e - E_g)(E_b + E_c + E_d - E_e - E_g - E_i)(E_c + E_d + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (122)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|ag\rangle \langle ef|H|bj\rangle \langle gh|H|cd\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_e - E_i)(E_b + E_c + E_d - E_e - E_g - E_i)(E_c + E_d + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (123)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|aj\rangle \langle ef|H|bg\rangle \langle gh|H|cd\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_e - E_i)(E_b + E_c + E_d - E_e - E_i - E_j)(E_c + E_d + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (124)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ae\rangle \langle ef|H|bj\rangle \langle gh|H|cd\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_g - E_i)(E_b + E_c + E_d - E_e - E_g - E_i)(E_c + E_d + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (125)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|ae\rangle \langle ef|H|bg\rangle \langle gh|H|cd\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_i - E_j)(E_b + E_c + E_d - E_e - E_i - E_j)(E_c + E_d + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (126)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ai\rangle \langle ef|H|bj\rangle \langle gh|H|cd\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_g - E_h)(E_b + E_c + E_d - E_g - E_h - E_i)(E_c + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_e + E_f - E_i - E_j)} \quad (127)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ah\rangle \langle ef|H|bj\rangle \langle gh|H|cd\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_g - E_i)(E_b + E_c + E_d - E_g - E_h - E_i)(E_c + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_e + E_f - E_i - E_j)} \quad (128)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|aj\rangle \langle ef|H|bh\rangle \langle gh|H|cd\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_g - E_i)(E_b + E_c + E_d - E_g - E_i - E_j)(E_c + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_e + E_f - E_i - E_j)} \quad (129)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|ag\rangle \langle ef|H|bh\rangle \langle gh|H|cd\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_i - E_j)(E_b + E_c + E_d - E_g - E_i - E_j)(E_c + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_e + E_f - E_i - E_j)} \quad (130)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|ag\rangle \langle ef|H|bi\rangle \langle gh|H|cj\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_e - E_f)(E_b + E_c + E_d - E_e - E_f - E_g)(E_c + E_d - E_g - E_i)(E_d + E_h - E_i - E_j)} \quad (131)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|ai\rangle \langle ef|H|bg\rangle \langle gh|H|cj\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_e - E_f)(E_b + E_c + E_d - E_e - E_f - E_i)(E_c + E_d - E_g - E_i)(E_d + E_h - E_i - E_j)} \quad (132)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|af\rangle \langle ef|H|bi\rangle \langle gh|H|cj\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_e - E_g)(E_b + E_c + E_d - E_e - E_f - E_g)(E_c + E_d - E_g - E_i)(E_d + E_h - E_i - E_j)} \quad (133)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|af\rangle \langle ef|H|bg\rangle \langle gh|H|cj\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_e - E_i)(E_b + E_c + E_d - E_e - E_f - E_i)(E_c + E_d - E_g - E_i)(E_d + E_h - E_i - E_j)} \quad (134)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ai\rangle \langle ef|H|bj\rangle \langle gh|H|cf\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_e - E_g)(E_b + E_c + E_d - E_e - E_g - E_i)(E_c + E_d + E_f - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (135)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|ag\rangle \langle ef|H|bj\rangle \langle gh|H|cf\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_e - E_i)(E_b + E_c + E_d - E_e - E_g - E_i)(E_c + E_d + E_f - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (136)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|aj\rangle \langle ef|H|bg\rangle \langle gh|H|cf\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_e - E_i)(E_b + E_c + E_d - E_e - E_i - E_j)(E_c + E_d + E_f - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (137)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ah\rangle \langle ef|H|bi\rangle \langle gh|H|cj\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_e - E_g)(E_b + E_c + E_d - E_e - E_g - E_h)(E_c + E_d + E_f - E_g - E_h - E_i)(E_d + E_f - E_i - E_j)} \quad (138)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ai\rangle \langle ef|H|bh\rangle \langle gh|H|cj\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_e - E_g)(E_b + E_c + E_d - E_e - E_g - E_i)(E_c + E_d + E_f - E_g - E_h - E_i)(E_d + E_f - E_i - E_j)} \quad (139)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|ag\rangle \langle ef|H|bh\rangle \langle gh|H|cj\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_e - E_i)(E_b + E_c + E_d - E_e - E_g - E_i)(E_c + E_d + E_f - E_g - E_h - E_i)(E_d + E_f - E_i - E_j)} \quad (140)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ae\rangle \langle ef|H|bj\rangle \langle gh|H|cf\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_g - E_i)(E_b + E_c + E_d - E_e - E_g - E_i)(E_c + E_d + E_f - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (141)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|ae\rangle \langle ef|H|bg\rangle \langle gh|H|cf\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_i - E_j)(E_b + E_c + E_d - E_e - E_i - E_j)(E_c + E_d + E_f - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (142)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ae\rangle \langle ef|H|bi\rangle \langle gh|H|cj\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_g - E_h)(E_b + E_c + E_d - E_e - E_g - E_h)(E_c + E_d + E_f - E_g - E_h - E_i)(E_d + E_f - E_i - E_j)} \quad (143)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ae\rangle \langle ef|H|bh\rangle \langle gh|H|cj\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_g - E_i)(E_b + E_c + E_d - E_e - E_g - E_i)(E_c + E_d + E_f - E_g - E_h - E_i)(E_d + E_f - E_i - E_j)} \quad (144)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ai\rangle \langle ef|H|bj\rangle \langle gh|H|ce\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_g - E_h)(E_b + E_c + E_d - E_g - E_h - E_i)(E_c + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (145)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ah\rangle \langle ef|H|bj\rangle \langle gh|H|ce\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_g - E_i)(E_b + E_c + E_d - E_g - E_h - E_i)(E_c + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (146)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|aj\rangle \langle ef|H|bh\rangle \langle gh|H|ce\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_g - E_i)(E_b + E_c + E_d - E_g - E_i - E_j)(E_c + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (147)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|ag\rangle \langle ef|H|bh\rangle \langle gh|H|ce\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_i - E_j)(E_b + E_c + E_d - E_g - E_i - E_j)(E_c + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (148)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|ag\rangle \langle ef|H|bh\rangle \langle gh|H|ij\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_e - E_f)(E_b + E_c + E_d - E_e - E_f - E_g)(E_c + E_d - E_g - E_h)(E_c + E_d - E_i - E_j)} \quad (149)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|af\rangle \langle ef|H|bh\rangle \langle gh|H|ij\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_e - E_g)(E_b + E_c + E_d - E_e - E_f - E_g)(E_c + E_d - E_g - E_h)(E_c + E_d - E_i - E_j)} \quad (150)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ah\rangle \langle ef|H|bi\rangle \langle gh|H|fj\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_e - E_g)(E_b + E_c + E_d - E_e - E_g - E_h)(E_c + E_d + E_f - E_g - E_h - E_i)(E_c + E_d - E_i - E_j)} \quad (151)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ai\rangle \langle ef|H|bh\rangle \langle gh|H|fj\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_e - E_g)(E_b + E_c + E_d - E_e - E_g - E_i)(E_c + E_d + E_f - E_g - E_h - E_i)(E_c + E_d - E_i - E_j)} \quad (152)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|ag\rangle \langle ef|H|bh\rangle \langle gh|H|fj\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_e - E_i)(E_b + E_c + E_d - E_e - E_g - E_i)(E_c + E_d + E_f - E_g - E_h - E_i)(E_c + E_d - E_i - E_j)} \quad (153)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ae\rangle \langle ef|H|bi\rangle \langle gh|H|fj\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_g - E_h)(E_b + E_c + E_d - E_e - E_g - E_h)(E_c + E_d + E_f - E_g - E_h - E_i)(E_c + E_d - E_i - E_j)} \quad (154)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ae\rangle \langle ef|H|bh\rangle \langle gh|H|fj\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_g - E_i)(E_b + E_c + E_d - E_e - E_g - E_i)(E_c + E_d + E_f - E_g - E_h - E_i)(E_c + E_d - E_i - E_j)} \quad (155)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ai\rangle \langle ef|H|bj\rangle \langle gh|H|ef\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_g - E_h)(E_b + E_c + E_d - E_g - E_h - E_i)(E_c + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_c + E_d - E_i - E_j)} \quad (156)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ah\rangle \langle ef|H|bj\rangle \langle gh|H|ef\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_g - E_i)(E_b + E_c + E_d - E_g - E_h - E_i)(E_c + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_c + E_d - E_i - E_j)} \quad (157)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|aj\rangle \langle ef|H|bh\rangle \langle gh|H|ef\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_g - E_i)(E_b + E_c + E_d - E_g - E_i - E_j)(E_c + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_c + E_d - E_i - E_j)} \quad (158)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|ag\rangle \langle ef|H|bh\rangle \langle gh|H|ef\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_i - E_j)(E_b + E_c + E_d - E_g - E_i - E_j)(E_c + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_c + E_d - E_i - E_j)} \quad (159)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|ae\rangle \langle ef|H|ij\rangle \langle gh|H|bf\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_c - E_d)(E_b - E_e)(E_b + E_f - E_i - E_j)(E_g + E_h - E_i - E_j)} \quad (160)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|ae\rangle \langle ef|H|gi\rangle \langle gh|H|bj\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_d)(E_b - E_e)(E_b + E_f - E_g - E_i)(E_f + E_h - E_i - E_j)} \quad (161)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|ag\rangle \langle ef|H|ij\rangle \langle gh|H|be\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_d)(E_b - E_g)(E_b + E_e + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (162)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|ai\rangle \langle ef|H|gj\rangle \langle gh|H|be\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_d)(E_b - E_i)(E_b + E_e + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (163)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|ag\rangle \langle ef|H|hi\rangle \langle gh|H|bj\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_c - E_d)(E_b - E_g)(E_b + E_e + E_f - E_g - E_h - E_i)(E_e + E_f - E_i - E_j)} \quad (164)$$

$$\frac{1}{N!}(-1)^{4+t} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|ai\rangle \langle ef|H|gh\rangle \langle gh|H|bj\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_c - E_d)(E_b - E_i)(E_b + E_e + E_f - E_g - E_h - E_i)(E_e + E_f - E_i - E_j)} \quad (165)$$

$$\frac{1}{N!}(-1)^{5+t} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|af\rangle \langle ef|H|di\rangle \langle gh|H|bj\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_c - E_e)(E_b + E_d - E_e - E_f)(E_b - E_i)(E_g + E_h - E_i - E_j)} \quad (166)$$

$$\frac{1}{N!}(-1)^{6+t} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|ai\rangle \langle ef|H|dj\rangle \langle gh|H|bf\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_c - E_e)(E_b + E_d - E_e - E_i)(E_b + E_f - E_i - E_j)(E_g + E_h - E_i - E_j)} \quad (167)$$

$$\frac{1}{N!}(-1)^{5+t} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|ag\rangle \langle ef|H|di\rangle \langle gh|H|bj\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_e)(E_b + E_d - E_e - E_g)(E_b + E_f - E_g - E_i)(E_f + E_h - E_i - E_j)} \quad (168)$$

$$\frac{1}{N!}(-1)^{5+t} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|ai\rangle \langle ef|H|dg\rangle \langle gh|H|bj\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_e)(E_b + E_d - E_e - E_i)(E_b + E_f - E_g - E_i)(E_f + E_h - E_i - E_j)} \quad (169)$$

$$\frac{1}{N!}(-1)^{6+t} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|ae\rangle \langle ef|H|dj\rangle \langle gh|H|bf\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_c - E_i)(E_b + E_d - E_e - E_i)(E_b + E_f - E_i - E_j)(E_g + E_h - E_i - E_j)} \quad (170)$$

$$\frac{1}{N!}(-1)^{5+t} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ae\rangle \langle ef|H|di\rangle \langle gh|H|bj\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_g)(E_b + E_d - E_e - E_g)(E_b + E_f - E_g - E_i)(E_f + E_h - E_i - E_j)} \quad (171)$$

$$\frac{1}{N!}(-1)^{5+t} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|ae\rangle \langle ef|H|dg\rangle \langle gh|H|bj\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_i)(E_b + E_d - E_e - E_i)(E_b + E_f - E_g - E_i)(E_f + E_h - E_i - E_j)} \quad (172)$$

$$\frac{1}{N!}(-1)^{6+t} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ai\rangle \langle ef|H|dj\rangle \langle gh|H|be\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_g)(E_b + E_d - E_g - E_i)(E_b + E_e + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (173)$$

$$\frac{1}{N!}(-1)^{6+t} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|ag\rangle \langle ef|H|dj\rangle \langle gh|H|be\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_i)(E_b + E_d - E_g - E_i)(E_b + E_e + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (174)$$

$$\frac{1}{N!}(-1)^{6+t} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|aj\rangle \langle ef|H|dg\rangle \langle gh|H|be\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_i)(E_b + E_d - E_i - E_j)(E_b + E_e + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (175)$$

$$\frac{1}{N!}(-1)^{5+t} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ah\rangle \langle ef|H|di\rangle \langle gh|H|bj\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_c - E_g)(E_b + E_d - E_g - E_h)(E_b + E_e + E_f - E_g - E_h - E_i)(E_e + E_f - E_i - E_j)} \quad (176)$$

$$\frac{1}{N!}(-1)^{5+t} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ai\rangle \langle ef|H|dh\rangle \langle gh|H|bj\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_c - E_g)(E_b + E_d - E_g - E_i)(E_b + E_e + E_f - E_g - E_h - E_i)(E_e + E_f - E_i - E_j)} \quad (177)$$

$$\frac{1}{N!}(-1)^{5+t} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|ag\rangle \langle ef|H|dh\rangle \langle gh|H|bj\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_c - E_i)(E_b + E_d - E_g - E_i)(E_b + E_e + E_f - E_g - E_h - E_i)(E_e + E_f - E_i - E_j)} \quad (178)$$

$$\frac{1}{N!}(-1)^{5+t} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|ae\rangle \langle ef|H|gj\rangle \langle gh|H|bf\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_c - E_i)(E_b + E_d - E_e - E_i)(E_b + E_d + E_f - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (193)$$

$$\frac{1}{N!}(-1)^{4+t} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ae\rangle \langle ef|H|hi\rangle \langle gh|H|bj\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_c - E_g)(E_b + E_d - E_e - E_g)(E_b + E_d + E_f - E_g - E_h - E_i)(E_d + E_f - E_i - E_j)} \quad (194)$$

$$\frac{1}{N!}(-1)^{4+t} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|ae\rangle \langle ef|H|gh\rangle \langle gh|H|bj\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_c - E_i)(E_b + E_d - E_e - E_i)(E_b + E_d + E_f - E_g - E_h - E_i)(E_d + E_f - E_i - E_j)} \quad (195)$$

$$\frac{1}{N!}(-1)^{5+t} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ah\rangle \langle ef|H|ij\rangle \langle gh|H|be\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_c - E_g)(E_b + E_d - E_g - E_h)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (196)$$

$$\frac{1}{N!}(-1)^{5+t} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ai\rangle \langle ef|H|hj\rangle \langle gh|H|be\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_c - E_g)(E_b + E_d - E_g - E_i)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (197)$$

$$\frac{1}{N!}(-1)^{5+t} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|ag\rangle \langle ef|H|hj\rangle \langle gh|H|be\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_c - E_i)(E_b + E_d - E_g - E_i)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (198)$$

$$\frac{1}{N!}(-1)^{5+t} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|aj\rangle \langle ef|H|gh\rangle \langle gh|H|be\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_c - E_i)(E_b + E_d - E_i - E_j)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (199)$$

$$\frac{1}{N!}(-1)^{6+t} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|ai\rangle \langle ef|H|cd\rangle \langle gh|H|bj\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_e - E_f)(E_b + E_c + E_d - E_e - E_f - E_i)(E_b - E_i)(E_g + E_h - E_i - E_j)} \quad (200)$$

$$\frac{1}{N!}(-1)^{6+t} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|af\rangle \langle ef|H|cd\rangle \langle gh|H|bj\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_e - E_i)(E_b + E_c + E_d - E_e - E_f - E_i)(E_b - E_i)(E_g + E_h - E_i - E_j)} \quad (201)$$

$$\frac{1}{N!}(-1)^{7+t} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|aj\rangle \langle ef|H|cd\rangle \langle gh|H|bf\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_e - E_i)(E_b + E_c + E_d - E_e - E_i - E_j)(E_b + E_f - E_i - E_j)(E_g + E_h - E_i - E_j)} \quad (202)$$

$$\frac{1}{N!}(-1)^{6+t} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ai\rangle \langle ef|H|cd\rangle \langle gh|H|bj\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_e - E_g)(E_b + E_c + E_d - E_e - E_g - E_i)(E_b + E_f - E_g - E_i)(E_f + E_h - E_i - E_j)} \quad (203)$$

$$\frac{1}{N!}(-1)^{6+t} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|ag\rangle \langle ef|H|cd\rangle \langle gh|H|bj\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_e - E_i)(E_b + E_c + E_d - E_e - E_g - E_i)(E_b + E_f - E_g - E_i)(E_f + E_h - E_i - E_j)} \quad (204)$$

$$\frac{1}{N!}(-1)^{7+t} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|ae\rangle \langle ef|H|cd\rangle \langle gh|H|bf\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_i - E_j)(E_b + E_c + E_d - E_e - E_i - E_j)(E_b + E_f - E_i - E_j)(E_g + E_h - E_i - E_j)} \quad (205)$$

$$\frac{1}{N!}(-1)^{6+t} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ae\rangle \langle ef|H|cd\rangle \langle gh|H|bj\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_g - E_i)(E_b + E_c + E_d - E_e - E_g - E_i)(E_b + E_f - E_g - E_i)(E_f + E_h - E_i - E_j)} \quad (206)$$

$$\frac{1}{N!}(-1)^{7+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|aj\rangle \langle ef|H|cd\rangle \langle gh|H|be\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_g - E_i)(E_b + E_c + E_d - E_g - E_i - E_j)(E_b + E_e + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (207)$$

$$\frac{1}{N!}(-1)^{7+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|ag\rangle \langle ef|H|cd\rangle \langle gh|H|be\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_i - E_j)(E_b + E_c + E_d - E_g - E_i - E_j)(E_b + E_e + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (208)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ai\rangle \langle ef|H|cd\rangle \langle gh|H|bj\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_g - E_h)(E_b + E_c + E_d - E_g - E_h - E_i)(E_b + E_e + E_f - E_g - E_h - E_i)(E_e + E_f - E_i - E_j)} \quad (209)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ah\rangle \langle ef|H|cd\rangle \langle gh|H|bj\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_g - E_i)(E_b + E_c + E_d - E_g - E_h - E_i)(E_b + E_e + E_f - E_g - E_h - E_i)(E_e + E_f - E_i - E_j)} \quad (210)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|ai\rangle \langle ef|H|cj\rangle \langle gh|H|bd\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_e - E_f)(E_b + E_c + E_d - E_e - E_f - E_i)(E_b + E_d - E_i - E_j)(E_g + E_h - E_i - E_j)} \quad (211)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|af\rangle \langle ef|H|cj\rangle \langle gh|H|bd\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_e - E_i)(E_b + E_c + E_d - E_e - E_f - E_i)(E_b + E_d - E_i - E_j)(E_g + E_h - E_i - E_j)} \quad (212)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ai\rangle \langle ef|H|cj\rangle \langle gh|H|bd\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_e - E_g)(E_b + E_c + E_d - E_e - E_g - E_i)(E_b + E_d + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (213)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|ag\rangle \langle ef|H|cj\rangle \langle gh|H|bd\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_e - E_i)(E_b + E_c + E_d - E_e - E_g - E_i)(E_b + E_d + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (214)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|aj\rangle \langle ef|H|cg\rangle \langle gh|H|bd\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_e - E_i)(E_b + E_c + E_d - E_e - E_i - E_j)(E_b + E_d + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (215)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ae\rangle \langle ef|H|cj\rangle \langle gh|H|bd\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_g - E_i)(E_b + E_c + E_d - E_e - E_g - E_i)(E_b + E_d + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (216)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|ae\rangle \langle ef|H|cg\rangle \langle gh|H|bd\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_i - E_j)(E_b + E_c + E_d - E_e - E_i - E_j)(E_b + E_d + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (217)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ai\rangle \langle ef|H|cj\rangle \langle gh|H|bd\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_g - E_h)(E_b + E_c + E_d - E_g - E_h - E_i)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_e + E_f - E_i - E_j)} \quad (218)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ah\rangle \langle ef|H|cj\rangle \langle gh|H|bd\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_g - E_i)(E_b + E_c + E_d - E_g - E_h - E_i)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_e + E_f - E_i - E_j)} \quad (219)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|aj\rangle \langle ef|H|ch\rangle \langle gh|H|bd\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_g - E_i)(E_b + E_c + E_d - E_g - E_i - E_j)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_e + E_f - E_i - E_j)} \quad (220)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|ag\rangle \langle ef|H|ch\rangle \langle gh|H|bd\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_i - E_j)(E_b + E_c + E_d - E_g - E_i - E_j)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_e + E_f - E_i - E_j)} \quad (221)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|ag\rangle \langle ef|H|ci\rangle \langle gh|H|bj\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_e - E_f)(E_b + E_c + E_d - E_e - E_f - E_g)(E_b + E_d - E_g - E_i)(E_d + E_h - E_i - E_j)} \quad (222)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|ai\rangle \langle ef|H|cg\rangle \langle gh|H|bj\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_e - E_f)(E_b + E_c + E_d - E_e - E_f - E_i)(E_b + E_d - E_g - E_i)(E_d + E_h - E_i - E_j)} \quad (223)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|af\rangle \langle ef|H|ci\rangle \langle gh|H|bj\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_e - E_g)(E_b + E_c + E_d - E_e - E_f - E_g)(E_b + E_d - E_g - E_i)(E_d + E_h - E_i - E_j)} \quad (224)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|af\rangle \langle ef|H|cg\rangle \langle gh|H|bj\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_e - E_i)(E_b + E_c + E_d - E_e - E_f - E_i)(E_b + E_d - E_g - E_i)(E_d + E_h - E_i - E_j)} \quad (225)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ai\rangle \langle ef|H|cj\rangle \langle gh|H|bf\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_e - E_g)(E_b + E_c + E_d - E_e - E_g - E_i)(E_b + E_d + E_f - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (226)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|ag\rangle \langle ef|H|cj\rangle \langle gh|H|bf\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_e - E_i)(E_b + E_c + E_d - E_e - E_g - E_i)(E_b + E_d + E_f - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (227)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|aj\rangle \langle ef|H|cg\rangle \langle gh|H|bf\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_e - E_i)(E_b + E_c + E_d - E_e - E_i - E_j)(E_b + E_d + E_f - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (228)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ah\rangle \langle ef|H|ci\rangle \langle gh|H|bj\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_e - E_g)(E_b + E_c + E_d - E_e - E_g - E_h)(E_b + E_d + E_f - E_g - E_h - E_i)(E_d + E_f - E_i - E_j)} \quad (229)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ai\rangle \langle ef|H|ch\rangle \langle gh|H|bj\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_e - E_g)(E_b + E_c + E_d - E_e - E_g - E_i)(E_b + E_d + E_f - E_g - E_h - E_i)(E_d + E_f - E_i - E_j)} \quad (230)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|ag\rangle \langle ef|H|ch\rangle \langle gh|H|bj\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_e - E_i)(E_b + E_c + E_d - E_e - E_g - E_i)(E_b + E_d + E_f - E_g - E_h - E_i)(E_d + E_f - E_i - E_j)} \quad (231)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ae\rangle \langle ef|H|cj\rangle \langle gh|H|bf\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_g - E_i)(E_b + E_c + E_d - E_e - E_g - E_i)(E_b + E_d + E_f - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (232)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|ae\rangle \langle ef|H|cg\rangle \langle gh|H|bf\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_i - E_j)(E_b + E_c + E_d - E_e - E_i - E_j)(E_b + E_d + E_f - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (233)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ae\rangle \langle ef|H|ci\rangle \langle gh|H|bj\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_g - E_h)(E_b + E_c + E_d - E_e - E_g - E_h)(E_b + E_d + E_f - E_g - E_h - E_i)(E_d + E_f - E_i - E_j)} \quad (234)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ae\rangle \langle ef|H|ch\rangle \langle gh|H|bj\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_g - E_i)(E_b + E_c + E_d - E_e - E_g - E_i)(E_b + E_d + E_f - E_g - E_h - E_i)(E_d + E_f - E_i - E_j)} \quad (235)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ai\rangle \langle ef|H|cj\rangle \langle gh|H|be\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_g - E_h)(E_b + E_c + E_d - E_g - E_h - E_i)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (236)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ah\rangle \langle ef|H|cj\rangle \langle gh|H|be\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_g - E_i)(E_b + E_c + E_d - E_g - E_h - E_i)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (237)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|aj\rangle \langle ef|H|ch\rangle \langle gh|H|be\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_g - E_i)(E_b + E_c + E_d - E_g - E_i - E_j)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (238)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|ag\rangle \langle ef|H|ch\rangle \langle gh|H|be\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_i - E_j)(E_b + E_c + E_d - E_g - E_i - E_j)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (239)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|ag\rangle \langle ef|H|ij\rangle \langle gh|H|bc\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_e - E_f)(E_b + E_c + E_d - E_e - E_f - E_g)(E_b + E_c + E_d - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (240)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|ai\rangle \langle ef|H|gj\rangle \langle gh|H|bc\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_e - E_f)(E_b + E_c + E_d - E_e - E_f - E_i)(E_b + E_c + E_d - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (241)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|af\rangle \langle ef|H|ij\rangle \langle gh|H|bc\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_e - E_g)(E_b + E_c + E_d - E_e - E_f - E_g)(E_b + E_c + E_d - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (242)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|af\rangle \langle ef|H|gj\rangle \langle gh|H|bc\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_e - E_i)(E_b + E_c + E_d - E_e - E_f - E_i)(E_b + E_c + E_d - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (243)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ah\rangle \langle ef|H|ij\rangle \langle gh|H|bc\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_e - E_g)(E_b + E_c + E_d - E_e - E_g - E_h)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (244)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ai\rangle \langle ef|H|hj\rangle \langle gh|H|bc\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_e - E_g)(E_b + E_c + E_d - E_e - E_g - E_i)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (245)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|ag\rangle \langle ef|H|hj\rangle \langle gh|H|bc\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_e - E_i)(E_b + E_c + E_d - E_e - E_g - E_i)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (246)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|aj\rangle \langle ef|H|gh\rangle \langle gh|H|bc\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_e - E_i)(E_b + E_c + E_d - E_e - E_i - E_j)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (247)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ae\rangle \langle ef|H|ij\rangle \langle gh|H|bc\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_g - E_h)(E_b + E_c + E_d - E_e - E_g - E_h)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (248)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ae\rangle \langle ef|H|hj\rangle \langle gh|H|bc\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_g - E_i)(E_b + E_c + E_d - E_e - E_g - E_i)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (249)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|ae\rangle \langle ef|H|gh\rangle \langle gh|H|bc\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_i - E_j)(E_b + E_c + E_d - E_e - E_i - E_j)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (250)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|ag\rangle \langle ef|H|hi\rangle \langle gh|H|bj\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_e - E_f)(E_b + E_c + E_d - E_e - E_f - E_g)(E_b + E_c + E_d - E_g - E_h - E_i)(E_c + E_d - E_i - E_j)} \quad (251)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|ai\rangle \langle ef|H|gh\rangle \langle gh|H|bj\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_e - E_f)(E_b + E_c + E_d - E_e - E_f - E_i)(E_b + E_c + E_d - E_g - E_h - E_i)(E_c + E_d - E_i - E_j)} \quad (252)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|af\rangle \langle ef|H|hi\rangle \langle gh|H|bj\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_e - E_g)(E_b + E_c + E_d - E_e - E_f - E_g)(E_b + E_c + E_d - E_g - E_h - E_i)(E_c + E_d - E_i - E_j)} \quad (253)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|af\rangle \langle ef|H|gh\rangle \langle gh|H|bj\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_e - E_i)(E_b + E_c + E_d - E_e - E_f - E_i)(E_b + E_c + E_d - E_g - E_h - E_i)(E_c + E_d - E_i - E_j)} \quad (254)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ah\rangle \langle ef|H|ij\rangle \langle gh|H|bf\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_e - E_g)(E_b + E_c + E_d - E_e - E_g - E_h)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_c + E_d - E_i - E_j)} \quad (255)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ai\rangle \langle ef|H|hj\rangle \langle gh|H|bf\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_e - E_g)(E_b + E_c + E_d - E_e - E_g - E_i)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_c + E_d - E_i - E_j)} \quad (256)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|ag\rangle \langle ef|H|hj\rangle \langle gh|H|bf\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_e - E_i)(E_b + E_c + E_d - E_e - E_g - E_i)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_c + E_d - E_i - E_j)} \quad (257)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|aj\rangle \langle ef|H|gh\rangle \langle gh|H|bf\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_e - E_i)(E_b + E_c + E_d - E_e - E_i - E_j)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_c + E_d - E_i - E_j)} \quad (258)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ae\rangle \langle ef|H|ij\rangle \langle gh|H|bf\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_g - E_h)(E_b + E_c + E_d - E_e - E_g - E_h)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_c + E_d - E_i - E_j)} \quad (259)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ae\rangle \langle ef|H|hj\rangle \langle gh|H|bf\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_g - E_i)(E_b + E_c + E_d - E_e - E_g - E_i)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_c + E_d - E_i - E_j)} \quad (260)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|ae\rangle \langle ef|H|gh\rangle \langle gh|H|bf\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_i - E_j)(E_b + E_c + E_d - E_e - E_i - E_j)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_c + E_d - E_i - E_j)} \quad (261)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|ae\rangle \langle ef|H|gi\rangle \langle gh|H|fj\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_c - E_d)(E_b - E_e)(E_b + E_f - E_g - E_i)(E_b + E_h - E_i - E_j)} \quad (262)$$

$$\frac{1}{N!}(-1)^{3+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|ae\rangle \langle ef|H|gh\rangle \langle gh|H|ij\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_c - E_d)(E_b - E_e)(E_b + E_f - E_g - E_h)(E_b + E_f - E_i - E_j)} \quad (263)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|ag\rangle \langle ef|H|ij\rangle \langle gh|H|ef\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_c - E_d)(E_b - E_g)(E_b + E_e + E_f - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (264)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|ai\rangle \langle ef|H|gj\rangle \langle gh|H|ef\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_c - E_d)(E_b - E_i)(E_b + E_e + E_f - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (265)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|ag\rangle \langle ef|H|hi\rangle \langle gh|H|ej\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_c - E_d)(E_b - E_g)(E_b + E_e + E_f - E_g - E_h - E_i)(E_b + E_f - E_i - E_j)} \quad (266)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|ai\rangle \langle ef|H|gh\rangle \langle gh|H|ej\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_c - E_d)(E_b - E_i)(E_b + E_e + E_f - E_g - E_h - E_i)(E_b + E_f - E_i - E_j)} \quad (267)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|af\rangle \langle ef|H|dg\rangle \langle gh|H|ij\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_c - E_e)(E_b + E_d - E_e - E_f)(E_b - E_g)(E_b + E_h - E_i - E_j)} \quad (268)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|ag\rangle \langle ef|H|di\rangle \langle gh|H|fj\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_c - E_e)(E_b + E_d - E_e - E_g)(E_b + E_f - E_g - E_i)(E_b + E_h - E_i - E_j)} \quad (269)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|ai\rangle \langle ef|H|dg\rangle \langle gh|H|fj\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_c - E_e)(E_b + E_d - E_e - E_i)(E_b + E_f - E_g - E_i)(E_b + E_h - E_i - E_j)} \quad (270)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|ag\rangle \langle ef|H|dh\rangle \langle gh|H|ij\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_c - E_e)(E_b + E_d - E_e - E_g)(E_b + E_f - E_g - E_h)(E_b + E_f - E_i - E_j)} \quad (271)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ae\rangle \langle ef|H|di\rangle \langle gh|H|fj\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_c - E_g)(E_b + E_d - E_e - E_g)(E_b + E_f - E_g - E_i)(E_b + E_h - E_i - E_j)} \quad (272)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|ae\rangle \langle ef|H|dg\rangle \langle gh|H|fj\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_c - E_i)(E_b + E_d - E_e - E_i)(E_b + E_f - E_g - E_i)(E_b + E_h - E_i - E_j)} \quad (273)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ae\rangle \langle ef|H|dh\rangle \langle gh|H|ij\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_c - E_g)(E_b + E_d - E_e - E_g)(E_b + E_f - E_g - E_h)(E_b + E_f - E_i - E_j)} \quad (274)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ai\rangle \langle ef|H|dj\rangle \langle gh|H|ef\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_c - E_g)(E_b + E_d - E_g - E_i)(E_b + E_e + E_f - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (275)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|ag\rangle \langle ef|H|dj\rangle \langle gh|H|ef\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_c - E_i)(E_b + E_d - E_g - E_i)(E_b + E_e + E_f - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (276)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|aj\rangle \langle ef|H|dg\rangle \langle gh|H|ef\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_c - E_i)(E_b + E_d - E_i - E_j)(E_b + E_e + E_f - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (277)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ah\rangle \langle ef|H|di\rangle \langle gh|H|ej\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_c - E_g)(E_b + E_d - E_g - E_h)(E_b + E_e + E_f - E_g - E_h - E_i)(E_b + E_f - E_i - E_j)} \quad (278)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ai\rangle \langle ef|H|dh\rangle \langle gh|H|ej\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_c - E_g)(E_b + E_d - E_g - E_i)(E_b + E_e + E_f - E_g - E_h - E_i)(E_b + E_f - E_i - E_j)} \quad (279)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|ag\rangle \langle ef|H|dh\rangle \langle gh|H|ej\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_c - E_i)(E_b + E_d - E_g - E_i)(E_b + E_e + E_f - E_g - E_h - E_i)(E_b + E_f - E_i - E_j)} \quad (280)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|af\rangle \langle ef|H|gi\rangle \langle gh|H|dj\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_c - E_e)(E_b + E_d - E_e - E_f)(E_b + E_d - E_g - E_i)(E_b + E_h - E_i - E_j)} \quad (281)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|ag\rangle \langle ef|H|ij\rangle \langle gh|H|df\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_c - E_e)(E_b + E_d - E_e - E_g)(E_b + E_d + E_f - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (282)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|ai\rangle \langle ef|H|gj\rangle \langle gh|H|df\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_c - E_e)(E_b + E_d - E_e - E_i)(E_b + E_d + E_f - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (283)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|ae\rangle \langle ef|H|gh\rangle \langle gh|H|fj\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_c - E_i)(E_b + E_d - E_e - E_i)(E_b + E_d + E_f - E_g - E_h - E_i)(E_b + E_d - E_i - E_j)} \quad (298)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ah\rangle \langle ef|H|ij\rangle \langle gh|H|ef\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_c - E_g)(E_b + E_d - E_g - E_h)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (299)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ai\rangle \langle ef|H|hj\rangle \langle gh|H|ef\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_c - E_g)(E_b + E_d - E_g - E_i)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (300)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|ag\rangle \langle ef|H|hj\rangle \langle gh|H|ef\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_c - E_i)(E_b + E_d - E_g - E_i)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (301)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|ag\rangle \langle ef|H|cd\rangle \langle gh|H|ij\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_e - E_f)(E_b + E_c + E_d - E_e - E_f - E_g)(E_b - E_g)(E_b + E_h - E_i - E_j)} \quad (302)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|af\rangle \langle ef|H|cd\rangle \langle gh|H|ij\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_e - E_g)(E_b + E_c + E_d - E_e - E_f - E_g)(E_b - E_g)(E_b + E_h - E_i - E_j)} \quad (303)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ai\rangle \langle ef|H|cd\rangle \langle gh|H|fj\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_e - E_g)(E_b + E_c + E_d - E_e - E_g - E_i)(E_b + E_f - E_g - E_i)(E_b + E_h - E_i - E_j)} \quad (304)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|ag\rangle \langle ef|H|cd\rangle \langle gh|H|fj\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_e - E_i)(E_b + E_c + E_d - E_e - E_g - E_i)(E_b + E_f - E_g - E_i)(E_b + E_h - E_i - E_j)} \quad (305)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ah\rangle \langle ef|H|cd\rangle \langle gh|H|ij\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_e - E_g)(E_b + E_c + E_d - E_e - E_g - E_h)(E_b + E_f - E_g - E_h)(E_b + E_f - E_i - E_j)} \quad (306)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ae\rangle \langle ef|H|cd\rangle \langle gh|H|fj\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_g - E_i)(E_b + E_c + E_d - E_e - E_g - E_i)(E_b + E_f - E_g - E_i)(E_b + E_h - E_i - E_j)} \quad (307)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ae\rangle \langle ef|H|cd\rangle \langle gh|H|ij\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_g - E_h)(E_b + E_c + E_d - E_e - E_g - E_h)(E_b + E_f - E_g - E_h)(E_b + E_f - E_i - E_j)} \quad (308)$$

$$\frac{1}{N!}(-1)^{7+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|aj\rangle \langle ef|H|cd\rangle \langle gh|H|ef\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_g - E_i)(E_b + E_c + E_d - E_g - E_i - E_j)(E_b + E_e + E_f - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (309)$$

$$\frac{1}{N!}(-1)^{7+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|ag\rangle \langle ef|H|cd\rangle \langle gh|H|ef\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_i - E_j)(E_b + E_c + E_d - E_g - E_i - E_j)(E_b + E_e + E_f - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (310)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ai\rangle \langle ef|H|cd\rangle \langle gh|H|ej\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_g - E_h)(E_b + E_c + E_d - E_g - E_h - E_i)(E_b + E_e + E_f - E_g - E_h - E_i)(E_b + E_f - E_i - E_j)} \quad (311)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ae\rangle \langle ef|H|ch\rangle \langle gh|H|dj\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_g - E_i)(E_b + E_c + E_d - E_e - E_g - E_i)(E_b + E_d + E_f - E_g - E_h - E_i)(E_b + E_f - E_i - E_j)} \quad (326)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ai\rangle \langle ef|H|cj\rangle \langle gh|H|de\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_g - E_h)(E_b + E_c + E_d - E_g - E_h - E_i)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (327)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ah\rangle \langle ef|H|cj\rangle \langle gh|H|de\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_g - E_i)(E_b + E_c + E_d - E_g - E_h - E_i)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (328)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|aj\rangle \langle ef|H|ch\rangle \langle gh|H|de\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_g - E_i)(E_b + E_c + E_d - E_g - E_i - E_j)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (329)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|ag\rangle \langle ef|H|ch\rangle \langle gh|H|de\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_i - E_j)(E_b + E_c + E_d - E_g - E_i - E_j)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (330)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|ag\rangle \langle ef|H|ch\rangle \langle gh|H|ij\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_e - E_f)(E_b + E_c + E_d - E_e - E_f - E_g)(E_b + E_d - E_g - E_h)(E_b + E_d - E_i - E_j)} \quad (331)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|af\rangle \langle ef|H|ch\rangle \langle gh|H|ij\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_e - E_g)(E_b + E_c + E_d - E_e - E_f - E_g)(E_b + E_d - E_g - E_h)(E_b + E_d - E_i - E_j)} \quad (332)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ah\rangle \langle ef|H|ci\rangle \langle gh|H|fj\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_e - E_g)(E_b + E_c + E_d - E_e - E_g - E_h)(E_b + E_d + E_f - E_g - E_h - E_i)(E_b + E_d - E_i - E_j)} \quad (333)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ai\rangle \langle ef|H|ch\rangle \langle gh|H|fj\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_e - E_g)(E_b + E_c + E_d - E_e - E_g - E_i)(E_b + E_d + E_f - E_g - E_h - E_i)(E_b + E_d - E_i - E_j)} \quad (334)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|ag\rangle \langle ef|H|ch\rangle \langle gh|H|fj\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_e - E_i)(E_b + E_c + E_d - E_e - E_g - E_i)(E_b + E_d + E_f - E_g - E_h - E_i)(E_b + E_d - E_i - E_j)} \quad (335)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ae\rangle \langle ef|H|ci\rangle \langle gh|H|fj\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_g - E_h)(E_b + E_c + E_d - E_e - E_g - E_h)(E_b + E_d + E_f - E_g - E_h - E_i)(E_b + E_d - E_i - E_j)} \quad (336)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ae\rangle \langle ef|H|ch\rangle \langle gh|H|fj\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_g - E_i)(E_b + E_c + E_d - E_e - E_g - E_i)(E_b + E_d + E_f - E_g - E_h - E_i)(E_b + E_d - E_i - E_j)} \quad (337)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ai\rangle \langle ef|H|cj\rangle \langle gh|H|ef\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_g - E_h)(E_b + E_c + E_d - E_g - E_h - E_i)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (338)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ah\rangle \langle ef|H|cj\rangle \langle gh|H|ef\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_g - E_i)(E_b + E_c + E_d - E_g - E_h - E_i)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (339)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|aj\rangle \langle ef|H|ch\rangle \langle gh|H|ef\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_g - E_i)(E_b + E_c + E_d - E_g - E_i - E_j)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (340)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|ag\rangle \langle ef|H|ch\rangle \langle gh|H|ef\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_i - E_j)(E_b + E_c + E_d - E_g - E_i - E_j)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (341)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|ag\rangle \langle ef|H|ij\rangle \langle gh|H|cd\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_e - E_f)(E_b + E_c + E_d - E_e - E_f - E_g)(E_b + E_c + E_d - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (342)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|ai\rangle \langle ef|H|gj\rangle \langle gh|H|cd\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_e - E_f)(E_b + E_c + E_d - E_e - E_f - E_i)(E_b + E_c + E_d - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (343)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|af\rangle \langle ef|H|ij\rangle \langle gh|H|cd\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_e - E_g)(E_b + E_c + E_d - E_e - E_f - E_g)(E_b + E_c + E_d - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (344)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|af\rangle \langle ef|H|gj\rangle \langle gh|H|cd\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_e - E_i)(E_b + E_c + E_d - E_e - E_f - E_i)(E_b + E_c + E_d - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (345)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ah\rangle \langle ef|H|ij\rangle \langle gh|H|cd\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_e - E_g)(E_b + E_c + E_d - E_e - E_g - E_h)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (346)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ai\rangle \langle ef|H|hj\rangle \langle gh|H|cd\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_e - E_g)(E_b + E_c + E_d - E_e - E_g - E_i)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (347)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|ag\rangle \langle ef|H|hj\rangle \langle gh|H|cd\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_e - E_i)(E_b + E_c + E_d - E_e - E_g - E_i)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (348)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|aj\rangle \langle ef|H|gh\rangle \langle gh|H|cd\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_e - E_i)(E_b + E_c + E_d - E_e - E_i - E_j)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (349)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ae\rangle \langle ef|H|ij\rangle \langle gh|H|cd\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_g - E_h)(E_b + E_c + E_d - E_e - E_g - E_h)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (350)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ae\rangle \langle ef|H|hj\rangle \langle gh|H|cd\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_g - E_i)(E_b + E_c + E_d - E_e - E_g - E_i)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (351)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|ae\rangle \langle ef|H|gh\rangle \langle gh|H|cd\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_i - E_j)(E_b + E_c + E_d - E_e - E_i - E_j)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (352)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|ag\rangle \langle ef|H|hi\rangle \langle gh|H|cj\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_e - E_f)(E_b + E_c + E_d - E_e - E_f - E_g)(E_b + E_c + E_d - E_g - E_h - E_i)(E_b + E_d - E_i - E_j)} \quad (353)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|ai\rangle \langle ef|H|gh\rangle \langle gh|H|cj\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_e - E_f)(E_b + E_c + E_d - E_e - E_f - E_i)(E_b + E_c + E_d - E_g - E_h - E_i)(E_b + E_d - E_i - E_j)} \quad (354)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|af\rangle \langle ef|H|hi\rangle \langle gh|H|cj\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_e - E_g)(E_b + E_c + E_d - E_e - E_f - E_g)(E_b + E_c + E_d - E_g - E_h - E_i)(E_b + E_d - E_i - E_j)} \quad (355)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|af\rangle \langle ef|H|gh\rangle \langle gh|H|cj\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_e - E_i)(E_b + E_c + E_d - E_e - E_f - E_i)(E_b + E_c + E_d - E_g - E_h - E_i)(E_b + E_d - E_i - E_j)} \quad (356)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ah\rangle \langle ef|H|ij\rangle \langle gh|H|cf\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_e - E_g)(E_b + E_c + E_d - E_e - E_g - E_h)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (357)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ai\rangle \langle ef|H|hj\rangle \langle gh|H|cf\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_e - E_g)(E_b + E_c + E_d - E_e - E_g - E_i)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (358)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|ag\rangle \langle ef|H|hj\rangle \langle gh|H|cf\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_e - E_i)(E_b + E_c + E_d - E_e - E_g - E_i)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (359)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|aj\rangle \langle ef|H|gh\rangle \langle gh|H|cf\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_e - E_i)(E_b + E_c + E_d - E_e - E_i - E_j)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (360)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ae\rangle \langle ef|H|ij\rangle \langle gh|H|cf\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_g - E_h)(E_b + E_c + E_d - E_e - E_g - E_h)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (361)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ae\rangle \langle ef|H|hj\rangle \langle gh|H|cf\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_g - E_i)(E_b + E_c + E_d - E_e - E_g - E_i)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (362)$$

$$\frac{1}{N!}(-1)^{5+t} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|ae\rangle \langle ef|H|gh\rangle \langle gh|H|cf\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_i - E_j)(E_b + E_c + E_d - E_e - E_i - E_j)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (363)$$

$$\frac{1}{N!}(-1)^{5+t} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|ei\rangle \langle ef|H|ab\rangle \langle gh|H|fj\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_c - E_d)(E_a + E_b - E_e - E_i)(E_f - E_i)(E_g + E_h - E_i - E_j)} \quad (364)$$

$$\frac{1}{N!}(-1)^{4+t} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|eg\rangle \langle ef|H|ab\rangle \langle gh|H|ij\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_d)(E_a + E_b - E_e - E_g)(E_f - E_g)(E_f + E_h - E_i - E_j)} \quad (365)$$

$$\frac{1}{N!}(-1)^{6+t} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|ij\rangle \langle ef|H|ab\rangle \langle gh|H|ef\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_c - E_d)(E_a + E_b - E_i - E_j)(E_e + E_f - E_i - E_j)(E_g + E_h - E_i - E_j)} \quad (366)$$

$$\frac{1}{N!}(-1)^{5+t} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|gi\rangle \langle ef|H|ab\rangle \langle gh|H|ej\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_d)(E_a + E_b - E_g - E_i)(E_e + E_f - E_g - E_i)(E_f + E_h - E_i - E_j)} \quad (367)$$

$$\frac{1}{N!}(-1)^{4+t} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|gh\rangle \langle ef|H|ab\rangle \langle gh|H|ij\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_c - E_d)(E_a + E_b - E_g - E_h)(E_e + E_f - E_g - E_h)(E_e + E_f - E_i - E_j)} \quad (368)$$

$$\frac{1}{N!}(-1)^{5+t} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|fi\rangle \langle ef|H|ab\rangle \langle gh|H|dj\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_f - E_i)(E_d - E_i)(E_g + E_h - E_i - E_j)} \quad (369)$$

$$\frac{1}{N!}(-1)^{6+t} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|ij\rangle \langle ef|H|ab\rangle \langle gh|H|df\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_i - E_j)(E_d + E_f - E_i - E_j)(E_g + E_h - E_i - E_j)} \quad (370)$$

$$\frac{1}{N!}(-1)^{5+t} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|gi\rangle \langle ef|H|ab\rangle \langle gh|H|dj\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_g - E_i)(E_d + E_f - E_g - E_i)(E_f + E_h - E_i - E_j)} \quad (371)$$

$$\frac{1}{N!}(-1)^{5+t} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|ef\rangle \langle ef|H|ab\rangle \langle gh|H|dj\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_e - E_f - E_i)(E_d - E_i)(E_g + E_h - E_i - E_j)} \quad (372)$$

$$\frac{1}{N!}(-1)^{6+t} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|ej\rangle \langle ef|H|ab\rangle \langle gh|H|df\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_e - E_i - E_j)(E_d + E_f - E_i - E_j)(E_g + E_h - E_i - E_j)} \quad (373)$$

$$\frac{1}{N!}(-1)^{5+t} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ei\rangle \langle ef|H|ab\rangle \langle gh|H|dj\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_e - E_g - E_i)(E_d + E_f - E_g - E_i)(E_f + E_h - E_i - E_j)} \quad (374)$$

$$\frac{1}{N!}(-1)^{5+t} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|eg\rangle \langle ef|H|ab\rangle \langle gh|H|dj\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_e - E_g - E_i)(E_d + E_f - E_g - E_i)(E_f + E_h - E_i - E_j)} \quad (375)$$

$$\frac{1}{N!}(-1)^{6+t} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ij\rangle \langle ef|H|ab\rangle \langle gh|H|de\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_g - E_i - E_j)(E_d + E_e + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (376)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|gj\rangle \langle ef|H|ab\rangle \langle gh|H|de\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_g - E_i - E_j)(E_d + E_e + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (377)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|hi\rangle \langle ef|H|ab\rangle \langle gh|H|dj\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_g - E_h - E_i)(E_d + E_e + E_f - E_g - E_h - E_i)(E_e + E_f - E_i - E_j)} \quad (378)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|gh\rangle \langle ef|H|ab\rangle \langle gh|H|dj\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_g - E_h - E_i)(E_d + E_e + E_f - E_g - E_h - E_i)(E_e + E_f - E_i - E_j)} \quad (379)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|fg\rangle \langle ef|H|ab\rangle \langle gh|H|ij\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_f - E_g)(E_d - E_g)(E_d + E_h - E_i - E_j)} \quad (380)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|gi\rangle \langle ef|H|ab\rangle \langle gh|H|fj\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_g - E_i)(E_d + E_f - E_g - E_i)(E_d + E_h - E_i - E_j)} \quad (381)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|gh\rangle \langle ef|H|ab\rangle \langle gh|H|ij\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_g - E_h)(E_d + E_f - E_g - E_h)(E_d + E_f - E_i - E_j)} \quad (382)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ef\rangle \langle ef|H|ab\rangle \langle gh|H|ij\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_e - E_f - E_g)(E_d - E_g)(E_d + E_h - E_i - E_j)} \quad (383)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ei\rangle \langle ef|H|ab\rangle \langle gh|H|fj\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_e - E_g - E_i)(E_d + E_f - E_g - E_i)(E_d + E_h - E_i - E_j)} \quad (384)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|eg\rangle \langle ef|H|ab\rangle \langle gh|H|fj\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_e - E_g - E_i)(E_d + E_f - E_g - E_i)(E_d + E_h - E_i - E_j)} \quad (385)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|eh\rangle \langle ef|H|ab\rangle \langle gh|H|ij\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_e - E_g - E_h)(E_d + E_f - E_g - E_h)(E_d + E_f - E_i - E_j)} \quad (386)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ij\rangle \langle ef|H|ab\rangle \langle gh|H|ef\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_g - E_i - E_j)(E_d + E_e + E_f - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (387)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|gj\rangle \langle ef|H|ab\rangle \langle gh|H|ef\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_g - E_i - E_j)(E_d + E_e + E_f - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (388)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|hi\rangle \langle ef|H|ab\rangle \langle gh|H|ej\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_g - E_h - E_i)(E_d + E_e + E_f - E_g - E_h - E_i)(E_d + E_f - E_i - E_j)} \quad (389)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|gh\rangle \langle ef|H|ab\rangle \langle gh|H|ej\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_g - E_h - E_i)(E_d + E_e + E_f - E_g - E_h - E_i)(E_d + E_f - E_i - E_j)} \quad (390)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|fj\rangle \langle ef|H|ab\rangle \langle gh|H|cd\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_f - E_i - E_j)(E_c + E_d - E_i - E_j)(E_g + E_h - E_i - E_j)} \quad (391)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ij\rangle \langle ef|H|ab\rangle \langle gh|H|cd\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_c + E_d + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (392)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|gj\rangle \langle ef|H|ab\rangle \langle gh|H|cd\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_c + E_d + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (393)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|ef\rangle \langle ef|H|ab\rangle \langle gh|H|cd\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_i - E_j)(E_a + E_b + E_c + E_d - E_e - E_f - E_i - E_j)(E_c + E_d - E_i - E_j)(E_g + E_h - E_i - E_j)} \quad (394)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ej\rangle \langle ef|H|ab\rangle \langle gh|H|cd\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_c + E_d + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (395)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|eg\rangle \langle ef|H|ab\rangle \langle gh|H|cd\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_i - E_j)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_c + E_d + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (396)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ij\rangle \langle ef|H|ab\rangle \langle gh|H|cd\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_g - E_h)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_c + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_e + E_f - E_i - E_j)} \quad (397)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|hj\rangle \langle ef|H|ab\rangle \langle gh|H|cd\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_c + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_e + E_f - E_i - E_j)} \quad (398)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|fi\rangle \langle ef|H|ab\rangle \langle gh|H|cj\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_c + E_d - E_g - E_i)(E_d + E_h - E_i - E_j)} \quad (399)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|fg\rangle \langle ef|H|ab\rangle \langle gh|H|cj\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_c + E_d - E_g - E_i)(E_d + E_h - E_i - E_j)} \quad (400)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ij\rangle \langle ef|H|ab\rangle \langle gh|H|cf\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_c + E_d + E_f - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (401)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|gj\rangle \langle ef|H|ab\rangle \langle gh|H|cf\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_c + E_d + E_f - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (402)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|hi\rangle \langle ef|H|ab\rangle \langle gh|H|cj\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_c + E_d + E_f - E_g - E_h - E_i)(E_d + E_f - E_i - E_j)} \quad (403)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|gh\rangle \langle ef|H|ab\rangle \langle gh|H|cj\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_c + E_d + E_f - E_g - E_h - E_i)(E_d + E_f - E_i - E_j)} \quad (404)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ef\rangle \langle ef|H|ab\rangle \langle gh|H|cj\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_c + E_d - E_g - E_i)(E_d + E_h - E_i - E_j)} \quad (405)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ej\rangle \langle ef|H|ab\rangle \langle gh|H|cf\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_c + E_d + E_f - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (406)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|eg\rangle \langle ef|H|ab\rangle \langle gh|H|cf\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_i - E_j)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_c + E_d + E_f - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (407)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ei\rangle \langle ef|H|ab\rangle \langle gh|H|cj\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_g - E_h)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_c + E_d + E_f - E_g - E_h - E_i)(E_d + E_f - E_i - E_j)} \quad (408)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|eh\rangle \langle ef|H|ab\rangle \langle gh|H|cj\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_c + E_d + E_f - E_g - E_h - E_i)(E_d + E_f - E_i - E_j)} \quad (409)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ij\rangle \langle ef|H|ab\rangle \langle gh|H|ce\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_g - E_h)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_c + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (410)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|hj\rangle \langle ef|H|ab\rangle \langle gh|H|ce\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_c + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (411)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|gh\rangle \langle ef|H|ab\rangle \langle gh|H|ce\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_i - E_j)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_c + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (412)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|fh\rangle \langle ef|H|ab\rangle \langle gh|H|ij\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_h)(E_c + E_d - E_g - E_h)(E_c + E_d - E_i - E_j)} \quad (413)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|hi\rangle \langle ef|H|ab\rangle \langle gh|H|fj\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_c + E_d + E_f - E_g - E_h - E_i)(E_c + E_d - E_i - E_j)} \quad (414)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|gh\rangle \langle ef|H|ab\rangle \langle gh|H|fj\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_c + E_d + E_f - E_g - E_h - E_i)(E_c + E_d - E_i - E_j)} \quad (415)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ef\rangle \langle ef|H|ab\rangle \langle gh|H|ij\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_g - E_h)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_h)(E_c + E_d - E_g - E_h)(E_c + E_d - E_i - E_j)} \quad (416)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ei\rangle \langle ef|H|ab\rangle \langle gh|H|fj\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_g - E_h)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_c + E_d + E_f - E_g - E_h - E_i)(E_c + E_d - E_i - E_j)} \quad (417)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|eh\rangle \langle ef|H|ab\rangle \langle gh|H|fj\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_c + E_d + E_f - E_g - E_h - E_i)(E_c + E_d - E_i - E_j)} \quad (418)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|hj\rangle \langle ef|H|ab\rangle \langle gh|H|ef\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_c + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_c + E_d - E_i - E_j)} \quad (419)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|gh\rangle \langle ef|H|ab\rangle \langle gh|H|ef\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_i - E_j)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_c + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_c + E_d - E_i - E_j)} \quad (420)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|ef\rangle \langle ef|H|ai\rangle \langle gh|H|bj\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_c - E_d)(E_a + E_b - E_e - E_f)(E_b - E_i)(E_g + E_h - E_i - E_j)} \quad (421)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|ei\rangle \langle ef|H|aj\rangle \langle gh|H|bf\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_c - E_d)(E_a + E_b - E_e - E_i)(E_b + E_f - E_i - E_j)(E_g + E_h - E_i - E_j)} \quad (422)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|eg\rangle \langle ef|H|ai\rangle \langle gh|H|bj\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_d)(E_a + E_b - E_e - E_g)(E_b + E_f - E_g - E_i)(E_f + E_h - E_i - E_j)} \quad (423)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|ei\rangle \langle ef|H|ag\rangle \langle gh|H|bj\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_d)(E_a + E_b - E_e - E_i)(E_b + E_f - E_g - E_i)(E_f + E_h - E_i - E_j)} \quad (424)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|gi\rangle \langle ef|H|aj\rangle \langle gh|H|be\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_d)(E_a + E_b - E_g - E_i)(E_b + E_e + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (425)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|ij\rangle \langle ef|H|ag\rangle \langle gh|H|be\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_d)(E_a + E_b - E_i - E_j)(E_b + E_e + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (426)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|gh\rangle \langle ef|H|ai\rangle \langle gh|H|bj\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_c - E_d)(E_a + E_b - E_g - E_h)(E_b + E_e + E_f - E_g - E_h - E_i)(E_c + E_f - E_i - E_j)} \quad (427)$$

$$\frac{1}{N!}(-1)^{4+t} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|gi\rangle \langle ef|H|ah\rangle \langle gh|H|bj\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_c - E_d)(E_a + E_b - E_g - E_i)(E_b + E_e + E_f - E_g - E_h - E_i)(E_e + E_f - E_i - E_j)} \quad (428)$$

$$\frac{1}{N!}(-1)^{5+t} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|fi\rangle \langle ef|H|ad\rangle \langle gh|H|bj\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_f - E_i)(E_b - E_i)(E_g + E_h - E_i - E_j)} \quad (429)$$

$$\frac{1}{N!}(-1)^{6+t} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|ij\rangle \langle ef|H|ad\rangle \langle gh|H|bf\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_i - E_j)(E_b + E_f - E_i - E_j)(E_g + E_h - E_i - E_j)} \quad (430)$$

$$\frac{1}{N!}(-1)^{5+t} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|gi\rangle \langle ef|H|ad\rangle \langle gh|H|bj\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_g - E_i)(E_b + E_f - E_g - E_i)(E_f + E_h - E_i - E_j)} \quad (431)$$

$$\frac{1}{N!}(-1)^{5+t} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|ef\rangle \langle ef|H|ad\rangle \langle gh|H|bj\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_e - E_f - E_i)(E_b - E_i)(E_g + E_h - E_i - E_j)} \quad (432)$$

$$\frac{1}{N!}(-1)^{6+t} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|ej\rangle \langle ef|H|ad\rangle \langle gh|H|bf\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_e - E_i - E_j)(E_b + E_f - E_i - E_j)(E_g + E_h - E_i - E_j)} \quad (433)$$

$$\frac{1}{N!}(-1)^{5+t} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ei\rangle \langle ef|H|ad\rangle \langle gh|H|bj\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_e - E_g - E_i)(E_b + E_f - E_g - E_i)(E_f + E_h - E_i - E_j)} \quad (434)$$

$$\frac{1}{N!}(-1)^{5+t} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|eg\rangle \langle ef|H|ad\rangle \langle gh|H|bj\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_e - E_g - E_i)(E_b + E_f - E_g - E_i)(E_f + E_h - E_i - E_j)} \quad (435)$$

$$\frac{1}{N!}(-1)^{6+t} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ij\rangle \langle ef|H|ad\rangle \langle gh|H|be\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_g - E_i - E_j)(E_b + E_e + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (436)$$

$$\frac{1}{N!}(-1)^{6+t} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|gj\rangle \langle ef|H|ad\rangle \langle gh|H|be\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_g - E_i - E_j)(E_b + E_e + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (437)$$

$$\frac{1}{N!}(-1)^{5+t} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|hi\rangle \langle ef|H|ad\rangle \langle gh|H|bj\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_g - E_h - E_i)(E_b + E_e + E_f - E_g - E_h - E_i)(E_e + E_f - E_i - E_j)} \quad (438)$$

$$\frac{1}{N!}(-1)^{5+t} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|gh\rangle \langle ef|H|ad\rangle \langle gh|H|bj\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_g - E_h - E_i)(E_b + E_e + E_f - E_g - E_h - E_i)(E_e + E_f - E_i - E_j)} \quad (439)$$

$$\frac{1}{N!}(-1)^{5+t} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|fi\rangle \langle ef|H|aj\rangle \langle gh|H|bd\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_f - E_i)(E_b + E_d - E_i - E_j)(E_g + E_h - E_i - E_j)} \quad (440)$$

$$\frac{1}{N!}(-1)^{5+t} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|gi\rangle \langle ef|H|aj\rangle \langle gh|H|bd\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_g - E_i)(E_b + E_d + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (441)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|ij\rangle \langle ef|H|ag\rangle \langle gh|H|bd\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_i - E_j)(E_b + E_d + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (442)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|ef\rangle \langle ef|H|aj\rangle \langle gh|H|bd\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_e - E_f - E_i)(E_b + E_d - E_i - E_j)(E_g + E_h - E_i - E_j)} \quad (443)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ei\rangle \langle ef|H|aj\rangle \langle gh|H|bd\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_e - E_g - E_i)(E_b + E_d + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (444)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|eg\rangle \langle ef|H|aj\rangle \langle gh|H|bd\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_e - E_g - E_i)(E_b + E_d + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (445)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|ej\rangle \langle ef|H|ag\rangle \langle gh|H|bd\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_e - E_i - E_j)(E_b + E_d + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (446)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|hi\rangle \langle ef|H|aj\rangle \langle gh|H|bd\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_g - E_h - E_i)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_e + E_f - E_i - E_j)} \quad (447)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ij\rangle \langle ef|H|ah\rangle \langle gh|H|bd\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_g - E_i - E_j)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_e + E_f - E_i - E_j)} \quad (448)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|gh\rangle \langle ef|H|aj\rangle \langle gh|H|bd\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_g - E_h - E_i)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_e + E_f - E_i - E_j)} \quad (449)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|gj\rangle \langle ef|H|ah\rangle \langle gh|H|bd\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_g - E_i - E_j)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_e + E_f - E_i - E_j)} \quad (450)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|fg\rangle \langle ef|H|ai\rangle \langle gh|H|bj\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_f - E_g)(E_b + E_d - E_g - E_i)(E_d + E_h - E_i - E_j)} \quad (451)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|fi\rangle \langle ef|H|ag\rangle \langle gh|H|bj\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_f - E_i)(E_b + E_d - E_g - E_i)(E_d + E_h - E_i - E_j)} \quad (452)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|gi\rangle \langle ef|H|aj\rangle \langle gh|H|bf\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_g - E_i)(E_b + E_d + E_f - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (453)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|ij\rangle \langle ef|H|ag\rangle \langle gh|H|bf\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_i - E_j)(E_b + E_d + E_f - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (454)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|gh\rangle \langle ef|H|ai\rangle \langle gh|H|bj\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_g - E_h)(E_b + E_d + E_f - E_g - E_h - E_i)(E_d + E_f - E_i - E_j)} \quad (455)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|gi\rangle \langle ef|H|ah\rangle \langle gh|H|bj\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_g - E_i)(E_b + E_d + E_f - E_g - E_h - E_i)(E_d + E_f - E_i - E_j)} \quad (456)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ef\rangle \langle ef|H|ai\rangle \langle gh|H|bj\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_e - E_f - E_g)(E_b + E_d - E_g - E_i)(E_d + E_h - E_i - E_j)} \quad (457)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|ef\rangle \langle ef|H|ag\rangle \langle gh|H|bj\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_e - E_f - E_i)(E_b + E_d - E_g - E_i)(E_d + E_h - E_i - E_j)} \quad (458)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ei\rangle \langle ef|H|aj\rangle \langle gh|H|bf\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_e - E_g - E_i)(E_b + E_d + E_f - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (459)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|eg\rangle \langle ef|H|aj\rangle \langle gh|H|bf\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_e - E_g - E_i)(E_b + E_d + E_f - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (460)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|ej\rangle \langle ef|H|ag\rangle \langle gh|H|bf\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_e - E_i - E_j)(E_b + E_d + E_f - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (461)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|eh\rangle \langle ef|H|ai\rangle \langle gh|H|bj\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_e - E_g - E_h)(E_b + E_d + E_f - E_g - E_h - E_i)(E_d + E_f - E_i - E_j)} \quad (462)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ei\rangle \langle ef|H|ah\rangle \langle gh|H|bj\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_e - E_g - E_i)(E_b + E_d + E_f - E_g - E_h - E_i)(E_d + E_f - E_i - E_j)} \quad (463)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|eg\rangle \langle ef|H|ah\rangle \langle gh|H|bj\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_e - E_g - E_i)(E_b + E_d + E_f - E_g - E_h - E_i)(E_d + E_f - E_i - E_j)} \quad (464)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|hi\rangle \langle ef|H|aj\rangle \langle gh|H|be\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_g - E_h - E_i)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (465)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ij\rangle \langle ef|H|ah\rangle \langle gh|H|be\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_g - E_i - E_j)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (466)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|gh\rangle \langle ef|H|aj\rangle \langle gh|H|be\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_g - E_h - E_i)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (467)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|gj\rangle \langle ef|H|ah\rangle \langle gh|H|be\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_g - E_i - E_j)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (468)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|ij\rangle \langle ef|H|ac\rangle \langle gh|H|bd\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_e - E_f)(E_a + E_b + E_c + E_d - E_e - E_f - E_i - E_j)(E_b + E_d - E_i - E_j)(E_g + E_h - E_i - E_j)} \quad (469)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|fj\rangle \langle ef|H|ac\rangle \langle gh|H|bd\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_f - E_i - E_j)(E_b + E_d - E_i - E_j)(E_g + E_h - E_i - E_j)} \quad (470)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ij\rangle \langle ef|H|ac\rangle \langle gh|H|bd\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_b + E_d + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (471)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|gj\rangle \langle ef|H|ac\rangle \langle gh|H|bd\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_b + E_d + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (472)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|ef\rangle \langle ef|H|ac\rangle \langle gh|H|bd\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_i - E_j)(E_a + E_b + E_c + E_d - E_e - E_f - E_i - E_j)(E_b + E_d - E_i - E_j)(E_g + E_h - E_i - E_j)} \quad (473)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ej\rangle \langle ef|H|ac\rangle \langle gh|H|bd\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_b + E_d + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (474)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|eg\rangle \langle ef|H|ac\rangle \langle gh|H|bd\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_i - E_j)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_b + E_d + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (475)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ij\rangle \langle ef|H|ac\rangle \langle gh|H|bd\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_g - E_h)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_e + E_f - E_i - E_j)} \quad (476)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|hj\rangle \langle ef|H|ac\rangle \langle gh|H|bd\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_e + E_f - E_i - E_j)} \quad (477)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|gh\rangle \langle ef|H|ac\rangle \langle gh|H|bd\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_i - E_j)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_e + E_f - E_i - E_j)} \quad (478)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|gi\rangle \langle ef|H|ac\rangle \langle gh|H|bj\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_e - E_f)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_b + E_d - E_g - E_i)(E_d + E_h - E_i - E_j)} \quad (479)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|fi\rangle \langle ef|H|ac\rangle \langle gh|H|bj\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_b + E_d - E_g - E_i)(E_d + E_h - E_i - E_j)} \quad (480)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|fg\rangle \langle ef|H|ac\rangle \langle gh|H|bj\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_b + E_d - E_g - E_i)(E_d + E_h - E_i - E_j)} \quad (481)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ij\rangle \langle ef|H|ac\rangle \langle gh|H|bf\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_b + E_d + E_f - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (482)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|gj\rangle \langle ef|H|ac\rangle \langle gh|H|bf\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_b + E_d + E_f - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (483)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|hi\rangle \langle ef|H|ac\rangle \langle gh|H|bj\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_b + E_d + E_f - E_g - E_h - E_i)(E_d + E_f - E_i - E_j)} \quad (484)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|gh\rangle \langle ef|H|ac\rangle \langle gh|H|bj\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_b + E_d + E_f - E_g - E_h - E_i)(E_d + E_f - E_i - E_j)} \quad (485)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ef\rangle \langle ef|H|ac\rangle \langle gh|H|bj\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_b + E_d - E_g - E_i)(E_d + E_h - E_i - E_j)} \quad (486)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ej\rangle \langle ef|H|ac\rangle \langle gh|H|bf\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_b + E_d + E_f - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (487)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|eg\rangle \langle ef|H|ac\rangle \langle gh|H|bf\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_i - E_j)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_b + E_d + E_f - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (488)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ei\rangle \langle ef|H|ac\rangle \langle gh|H|bj\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_g - E_h)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_b + E_d + E_f - E_g - E_h - E_i)(E_d + E_f - E_i - E_j)} \quad (489)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|eh\rangle \langle ef|H|ac\rangle \langle gh|H|bj\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_b + E_d + E_f - E_g - E_h - E_i)(E_d + E_f - E_i - E_j)} \quad (490)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ij\rangle \langle ef|H|ac\rangle \langle gh|H|be\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_g - E_h)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (491)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|hj\rangle \langle ef|H|ac\rangle \langle gh|H|be\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (492)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|gh\rangle \langle ef|H|ac\rangle \langle gh|H|be\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_i - E_j)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (493)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|gi\rangle \langle ef|H|aj\rangle \langle gh|H|bc\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_e - E_f)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_b + E_c + E_d - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (494)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|ij\rangle \langle ef|H|ag\rangle \langle gh|H|bc\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_e - E_f)(E_a + E_b + E_c + E_d - E_e - E_f - E_i - E_j)(E_b + E_c + E_d - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (495)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|fi\rangle \langle ef|H|aj\rangle \langle gh|H|bc\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_b + E_c + E_d - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (496)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|fg\rangle \langle ef|H|aj\rangle \langle gh|H|bc\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_b + E_c + E_d - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (497)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|fj\rangle \langle ef|H|ag\rangle \langle gh|H|bc\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_f - E_i - E_j)(E_b + E_c + E_d - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (498)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|hi\rangle \langle ef|H|aj\rangle \langle gh|H|bc\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (499)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ij\rangle \langle ef|H|ah\rangle \langle gh|H|bc\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (500)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|gh\rangle \langle ef|H|aj\rangle \langle gh|H|bc\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (501)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|gj\rangle \langle ef|H|ah\rangle \langle gh|H|bc\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (502)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ef\rangle \langle ef|H|aj\rangle \langle gh|H|bc\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_b + E_c + E_d - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (503)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|ef\rangle \langle ef|H|ag\rangle \langle gh|H|bc\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_i - E_j)(E_a + E_b + E_c + E_d - E_e - E_f - E_i - E_j)(E_b + E_c + E_d - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (504)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ei\rangle \langle ef|H|aj\rangle \langle gh|H|bc\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_g - E_h)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (505)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|eh\rangle \langle ef|H|aj\rangle \langle gh|H|bc\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (506)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ej\rangle \langle ef|H|ah\rangle \langle gh|H|bc\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (507)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|eg\rangle \langle ef|H|ah\rangle \langle gh|H|bc\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_i - E_j)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (508)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|gh\rangle \langle ef|H|ai\rangle \langle gh|H|bj\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_e - E_f)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_h)(E_b + E_c + E_d - E_g - E_h - E_i)(E_c + E_d - E_i - E_j)} \quad (509)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|gi\rangle \langle ef|H|ah\rangle \langle gh|H|bj\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_e - E_f)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_b + E_c + E_d - E_g - E_h - E_i)(E_c + E_d - E_i - E_j)} \quad (510)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|fh\rangle \langle ef|H|ai\rangle \langle gh|H|bj\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_h)(E_b + E_c + E_d - E_g - E_h - E_i)(E_c + E_d - E_i - E_j)} \quad (511)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|fi\rangle \langle ef|H|ah\rangle \langle gh|H|bj\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_b + E_c + E_d - E_g - E_h - E_i)(E_c + E_d - E_i - E_j)} \quad (512)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|fg\rangle \langle ef|H|ah\rangle \langle gh|H|bj\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_b + E_c + E_d - E_g - E_h - E_i)(E_c + E_d - E_i - E_j)} \quad (513)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|hi\rangle \langle ef|H|aj\rangle \langle gh|H|bf\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_c + E_d - E_i - E_j)} \quad (514)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|gh\rangle \langle ef|H|aj\rangle \langle gh|H|bf\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_c + E_d - E_i - E_j)} \quad (515)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|gj\rangle \langle ef|H|ah\rangle \langle gh|H|bf\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_c + E_d - E_i - E_j)} \quad (516)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ef\rangle \langle ef|H|ai\rangle \langle gh|H|bj\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_g - E_h)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_h)(E_b + E_c + E_d - E_g - E_h - E_i)(E_c + E_d - E_i - E_j)} \quad (517)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ef\rangle \langle ef|H|ah\rangle \langle gh|H|bj\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_b + E_c + E_d - E_g - E_h - E_i)(E_c + E_d - E_i - E_j)} \quad (518)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ei\rangle \langle ef|H|aj\rangle \langle gh|H|bf\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_g - E_h)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_c + E_d - E_i - E_j)} \quad (519)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|eh\rangle \langle ef|H|aj\rangle \langle gh|H|bf\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_c + E_d - E_i - E_j)} \quad (520)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ej\rangle \langle ef|H|ah\rangle \langle gh|H|bf\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_c + E_d - E_i - E_j)} \quad (521)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|eg\rangle \langle ef|H|ah\rangle \langle gh|H|bf\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_i - E_j)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_c + E_d - E_i - E_j)} \quad (522)$$

$$\frac{1}{N!}(-1)^{3+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|ef\rangle \langle ef|H|ag\rangle \langle gh|H|ij\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_c - E_d)(E_a + E_b - E_e - E_f)(E_b - E_g)(E_b + E_h - E_i - E_j)} \quad (523)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|eg\rangle \langle ef|H|ai\rangle \langle gh|H|fj\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_c - E_d)(E_a + E_b - E_e - E_g)(E_b + E_f - E_g - E_i)(E_b + E_h - E_i - E_j)} \quad (524)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|ei\rangle \langle ef|H|ag\rangle \langle gh|H|fj\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_c - E_d)(E_a + E_b - E_e - E_i)(E_b + E_f - E_g - E_i)(E_b + E_h - E_i - E_j)} \quad (525)$$

$$\frac{1}{N!}(-1)^{3+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|eg\rangle \langle ef|H|ah\rangle \langle gh|H|ij\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_c - E_d)(E_a + E_b - E_e - E_g)(E_b + E_f - E_g - E_h)(E_b + E_f - E_i - E_j)} \quad (526)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|gi\rangle \langle ef|H|aj\rangle \langle gh|H|ef\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_c - E_d)(E_a + E_b - E_g - E_i)(E_b + E_e + E_f - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (527)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|ij\rangle \langle ef|H|ag\rangle \langle gh|H|ef\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_c - E_d)(E_a + E_b - E_i - E_j)(E_b + E_e + E_f - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (528)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|gh\rangle \langle ef|H|ai\rangle \langle gh|H|ej\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_c - E_d)(E_a + E_b - E_g - E_h)(E_b + E_e + E_f - E_g - E_h - E_i)(E_b + E_f - E_i - E_j)} \quad (529)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|gi\rangle \langle ef|H|ah\rangle \langle gh|H|ej\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_c - E_d)(E_a + E_b - E_g - E_i)(E_b + E_e + E_f - E_g - E_h - E_i)(E_b + E_f - E_i - E_j)} \quad (530)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|fg\rangle \langle ef|H|ad\rangle \langle gh|H|ij\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_f - E_g)(E_b - E_g)(E_b + E_h - E_i - E_j)} \quad (531)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|gi\rangle \langle ef|H|ad\rangle \langle gh|H|fj\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_g - E_i)(E_b + E_f - E_g - E_i)(E_b + E_h - E_i - E_j)} \quad (532)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|gh\rangle \langle ef|H|ad\rangle \langle gh|H|ij\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_g - E_h)(E_b + E_f - E_g - E_h)(E_b + E_f - E_i - E_j)} \quad (533)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ef\rangle \langle ef|H|ad\rangle \langle gh|H|ij\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_e - E_f - E_g)(E_b - E_g)(E_b + E_h - E_i - E_j)} \quad (534)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ei\rangle \langle ef|H|ad\rangle \langle gh|H|fj\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_e - E_g - E_i)(E_b + E_f - E_g - E_i)(E_b + E_h - E_i - E_j)} \quad (535)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|eg\rangle \langle ef|H|ad\rangle \langle gh|H|fj\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_e - E_g - E_i)(E_b + E_f - E_g - E_i)(E_b + E_h - E_i - E_j)} \quad (536)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|eh\rangle \langle ef|H|ad\rangle \langle gh|H|ij\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_e - E_g - E_h)(E_b + E_f - E_g - E_h)(E_b + E_f - E_i - E_j)} \quad (537)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ij\rangle \langle ef|H|ad\rangle \langle gh|H|ef\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_g - E_i - E_j)(E_b + E_e + E_f - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (538)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|gj\rangle \langle ef|H|ad\rangle \langle gh|H|ef\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_g - E_i - E_j)(E_b + E_e + E_f - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (539)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ei\rangle \langle ef|H|ah\rangle \langle gh|H|dj\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_e - E_g - E_i)(E_b + E_d + E_f - E_g - E_h - E_i)(E_b + E_f - E_i - E_j)} \quad (554)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|eg\rangle \langle ef|H|ah\rangle \langle gh|H|dj\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_e - E_g - E_i)(E_b + E_d + E_f - E_g - E_h - E_i)(E_b + E_f - E_i - E_j)} \quad (555)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|hi\rangle \langle ef|H|aj\rangle \langle gh|H|de\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_g - E_h - E_i)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (556)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ij\rangle \langle ef|H|ah\rangle \langle gh|H|de\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_g - E_i - E_j)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (557)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|gh\rangle \langle ef|H|aj\rangle \langle gh|H|de\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_g - E_h - E_i)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (558)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|gj\rangle \langle ef|H|ah\rangle \langle gh|H|de\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_g - E_i - E_j)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (559)$$

$$\frac{1}{N!}(-1)^{3+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|fg\rangle \langle ef|H|ah\rangle \langle gh|H|ij\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_f - E_g)(E_b + E_d - E_g - E_h)(E_b + E_d - E_i - E_j)} \quad (560)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|gh\rangle \langle ef|H|ai\rangle \langle gh|H|fj\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_g - E_h)(E_b + E_d + E_f - E_g - E_h - E_i)(E_b + E_d - E_i - E_j)} \quad (561)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|gi\rangle \langle ef|H|ah\rangle \langle gh|H|fj\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_g - E_i)(E_b + E_d + E_f - E_g - E_h - E_i)(E_b + E_d - E_i - E_j)} \quad (562)$$

$$\frac{1}{N!}(-1)^{3+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ef\rangle \langle ef|H|ah\rangle \langle gh|H|ij\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_e - E_f - E_g)(E_b + E_d - E_g - E_h)(E_b + E_d - E_i - E_j)} \quad (563)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|eh\rangle \langle ef|H|ai\rangle \langle gh|H|fj\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_e - E_g - E_h)(E_b + E_d + E_f - E_g - E_h - E_i)(E_b + E_d - E_i - E_j)} \quad (564)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ei\rangle \langle ef|H|ah\rangle \langle gh|H|fj\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_e - E_g - E_i)(E_b + E_d + E_f - E_g - E_h - E_i)(E_b + E_d - E_i - E_j)} \quad (565)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|eg\rangle \langle ef|H|ah\rangle \langle gh|H|fj\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_e - E_g - E_i)(E_b + E_d + E_f - E_g - E_h - E_i)(E_b + E_d - E_i - E_j)} \quad (566)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|hi\rangle \langle ef|H|aj\rangle \langle gh|H|ef\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_g - E_h - E_i)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (567)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ij\rangle \langle ef|H|ah\rangle \langle gh|H|ef\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_g - E_i - E_j)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (568)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|gh\rangle \langle ef|H|aj\rangle \langle gh|H|ef\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_g - E_h - E_i)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (569)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|gj\rangle \langle ef|H|ah\rangle \langle gh|H|ef\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_g - E_i - E_j)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (570)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|gi\rangle \langle ef|H|ac\rangle \langle gh|H|dj\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_e - E_f)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_b + E_d - E_g - E_i)(E_b + E_h - E_i - E_j)} \quad (571)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|fi\rangle \langle ef|H|ac\rangle \langle gh|H|dj\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_b + E_d - E_g - E_i)(E_b + E_h - E_i - E_j)} \quad (572)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|fg\rangle \langle ef|H|ac\rangle \langle gh|H|dj\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_b + E_d - E_g - E_i)(E_b + E_h - E_i - E_j)} \quad (573)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ij\rangle \langle ef|H|ac\rangle \langle gh|H|df\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_b + E_d + E_f - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (574)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|gj\rangle \langle ef|H|ac\rangle \langle gh|H|df\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_b + E_d + E_f - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (575)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|hi\rangle \langle ef|H|ac\rangle \langle gh|H|dj\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_b + E_d + E_f - E_g - E_h - E_i)(E_b + E_f - E_i - E_j)} \quad (576)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|gh\rangle \langle ef|H|ac\rangle \langle gh|H|dj\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_b + E_d + E_f - E_g - E_h - E_i)(E_b + E_f - E_i - E_j)} \quad (577)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ef\rangle \langle ef|H|ac\rangle \langle gh|H|dj\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_b + E_d - E_g - E_i)(E_b + E_h - E_i - E_j)} \quad (578)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ej\rangle \langle ef|H|ac\rangle \langle gh|H|df\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_b + E_d + E_f - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (579)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|eg\rangle \langle ef|H|ac\rangle \langle gh|H|df\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_i - E_j)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_b + E_d + E_f - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (580)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ei\rangle \langle ef|H|ac\rangle \langle gh|H|dj\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_g - E_h)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_b + E_d + E_f - E_g - E_h - E_i)(E_b + E_f - E_i - E_j)} \quad (581)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|eh\rangle \langle ef|H|ac\rangle \langle gh|H|dj\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_b + E_d + E_f - E_g - E_h - E_i)(E_b + E_f - E_i - E_j)} \quad (582)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ij\rangle \langle ef|H|ac\rangle \langle gh|H|de\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_g - E_h)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (583)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|hj\rangle \langle ef|H|ac\rangle \langle gh|H|de\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (584)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|gh\rangle \langle ef|H|ac\rangle \langle gh|H|de\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_i - E_j)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (585)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|gh\rangle \langle ef|H|ac\rangle \langle gh|H|ij\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_e - E_f)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_h)(E_b + E_d - E_g - E_h)(E_b + E_d - E_i - E_j)} \quad (586)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|fh\rangle \langle ef|H|ac\rangle \langle gh|H|ij\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_h)(E_b + E_d - E_g - E_h)(E_b + E_d - E_i - E_j)} \quad (587)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|hi\rangle \langle ef|H|ac\rangle \langle gh|H|fj\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_b + E_d + E_f - E_g - E_h - E_i)(E_b + E_d - E_i - E_j)} \quad (588)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|gh\rangle \langle ef|H|ac\rangle \langle gh|H|fj\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_b + E_d + E_f - E_g - E_h - E_i)(E_b + E_d - E_i - E_j)} \quad (589)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ef\rangle \langle ef|H|ac\rangle \langle gh|H|ij\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_g - E_h)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_h)(E_b + E_d - E_g - E_h)(E_b + E_d - E_i - E_j)} \quad (590)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ei\rangle \langle ef|H|ac\rangle \langle gh|H|fj\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_g - E_h)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_b + E_d + E_f - E_g - E_h - E_i)(E_b + E_d - E_i - E_j)} \quad (591)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|eh\rangle \langle ef|H|ac\rangle \langle gh|H|fj\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_b + E_d + E_f - E_g - E_h - E_i)(E_b + E_d - E_i - E_j)} \quad (592)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ij\rangle \langle ef|H|ac\rangle \langle gh|H|ef\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_g - E_h)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (593)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|hj\rangle \langle ef|H|ac\rangle \langle gh|H|ef\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (594)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|gh\rangle \langle ef|H|ac\rangle \langle gh|H|ef\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_i - E_j)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_b + E_d + E_e + E_f - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (595)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|gi\rangle \langle ef|H|aj\rangle \langle gh|H|cd\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_e - E_f)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_b + E_c + E_d - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (596)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|ij\rangle \langle ef|H|ag\rangle \langle gh|H|cd\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_e - E_f)(E_a + E_b + E_c + E_d - E_e - E_f - E_i - E_j)(E_b + E_c + E_d - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (597)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|fi\rangle \langle ef|H|aj\rangle \langle gh|H|cd\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_b + E_c + E_d - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (598)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|fg\rangle \langle ef|H|aj\rangle \langle gh|H|cd\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_b + E_c + E_d - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (599)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|fj\rangle \langle ef|H|ag\rangle \langle gh|H|cd\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_f - E_i - E_j)(E_b + E_c + E_d - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (600)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|hi\rangle \langle ef|H|aj\rangle \langle gh|H|cd\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (601)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ij\rangle \langle ef|H|ah\rangle \langle gh|H|cd\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (602)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|gj\rangle \langle ef|H|ah\rangle \langle gh|H|cd\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (603)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ef\rangle \langle ef|H|aj\rangle \langle gh|H|cd\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_b + E_c + E_d - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (604)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|ef\rangle \langle ef|H|ag\rangle \langle gh|H|cd\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_i - E_j)(E_a + E_b + E_c + E_d - E_e - E_f - E_i - E_j)(E_b + E_c + E_d - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (605)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ei\rangle \langle ef|H|aj\rangle \langle gh|H|cd\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_g - E_h)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (606)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|eh\rangle \langle ef|H|aj\rangle \langle gh|H|cd\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (607)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ej\rangle \langle ef|H|ah\rangle \langle gh|H|cd\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (608)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|eg\rangle \langle ef|H|ah\rangle \langle gh|H|cd\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_i - E_j)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (609)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|gh\rangle \langle ef|H|ai\rangle \langle gh|H|cj\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_e - E_f)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_h)(E_b + E_c + E_d - E_g - E_h - E_i)(E_b + E_d - E_i - E_j)} \quad (610)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|gi\rangle \langle ef|H|ah\rangle \langle gh|H|cj\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_e - E_f)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_b + E_c + E_d - E_g - E_h - E_i)(E_b + E_d - E_i - E_j)} \quad (611)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|fh\rangle \langle ef|H|ai\rangle \langle gh|H|cj\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_h)(E_b + E_c + E_d - E_g - E_h - E_i)(E_b + E_d - E_i - E_j)} \quad (612)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|fi\rangle \langle ef|H|ah\rangle \langle gh|H|cj\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_b + E_c + E_d - E_g - E_h - E_i)(E_b + E_d - E_i - E_j)} \quad (613)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|fg\rangle \langle ef|H|ah\rangle \langle gh|H|cj\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_b + E_c + E_d - E_g - E_h - E_i)(E_b + E_d - E_i - E_j)} \quad (614)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|hi\rangle \langle ef|H|aj\rangle \langle gh|H|cf\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (615)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ij\rangle \langle ef|H|ah\rangle \langle gh|H|cf\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (616)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|gh\rangle \langle ef|H|aj\rangle \langle gh|H|cf\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (617)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|gj\rangle \langle ef|H|ah\rangle \langle gh|H|cf\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (618)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ef\rangle \langle ef|H|ai\rangle \langle gh|H|cj\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_g - E_h)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_h)(E_b + E_c + E_d - E_g - E_h - E_i)(E_b + E_d - E_i - E_j)} \quad (619)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ef\rangle \langle ef|H|ah\rangle \langle gh|H|cj\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_b + E_c + E_d - E_g - E_h - E_i)(E_b + E_d - E_i - E_j)} \quad (620)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ei\rangle \langle ef|H|aj\rangle \langle gh|H|cf\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_g - E_h)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (621)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|eh\rangle \langle ef|H|aj\rangle \langle gh|H|cf\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (622)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ej\rangle \langle ef|H|ah\rangle \langle gh|H|cf\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (623)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|eg\rangle \langle ef|H|ah\rangle \langle gh|H|cf\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_i - E_j)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_b + E_c + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (624)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|ef\rangle \langle ef|H|ij\rangle \langle gh|H|ab\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_c - E_d)(E_a + E_b - E_e - E_f)(E_a + E_b - E_i - E_j)(E_g + E_h - E_i - E_j)} \quad (625)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|eg\rangle \langle ef|H|ij\rangle \langle gh|H|ab\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_d)(E_a + E_b - E_e - E_g)(E_a + E_b + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (626)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|ei\rangle \langle ef|H|gj\rangle \langle gh|H|ab\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_d)(E_a + E_b - E_e - E_i)(E_a + E_b + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (627)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|gi\rangle \langle ef|H|hj\rangle \langle gh|H|ab\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_c - E_d)(E_a + E_b - E_g - E_i)(E_a + E_b + E_e + E_f - E_g - E_h - E_i - E_j)(E_e + E_f - E_i - E_j)} \quad (628)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|ij\rangle \langle ef|H|gh\rangle \langle gh|H|ab\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_c - E_d)(E_a + E_b - E_i - E_j)(E_a + E_b + E_e + E_f - E_g - E_h - E_i - E_j)(E_e + E_f - E_i - E_j)} \quad (629)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|fi\rangle \langle ef|H|dj\rangle \langle gh|H|ab\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_f - E_i)(E_a + E_b - E_i - E_j)(E_g + E_h - E_i - E_j)} \quad (630)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|gi\rangle \langle ef|H|dj\rangle \langle gh|H|ab\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_g - E_i)(E_a + E_b + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (631)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|ij\rangle \langle ef|H|dg\rangle \langle gh|H|ab\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_i - E_j)(E_a + E_b + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (632)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|ef\rangle \langle ef|H|dj\rangle \langle gh|H|ab\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_e - E_f - E_i)(E_a + E_b - E_i - E_j)(E_g + E_h - E_i - E_j)} \quad (633)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ei\rangle \langle ef|H|dj\rangle \langle gh|H|ab\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_e - E_g - E_i)(E_a + E_b + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (634)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|eg\rangle \langle ef|H|dj\rangle \langle gh|H|ab\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_e - E_g - E_i)(E_a + E_b + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (635)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|ej\rangle \langle ef|H|dg\rangle \langle gh|H|ab\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_e - E_i - E_j)(E_a + E_b + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (636)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|hi\rangle \langle ef|H|dj\rangle \langle gh|H|ab\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_g - E_h - E_i)(E_a + E_b + E_e + E_f - E_g - E_h - E_i - E_j)(E_e + E_f - E_i - E_j)} \quad (637)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ij\rangle \langle ef|H|dh\rangle \langle gh|H|ab\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_g - E_i - E_j)(E_a + E_b + E_e + E_f - E_g - E_h - E_i - E_j)(E_e + E_f - E_i - E_j)} \quad (638)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|gh\rangle \langle ef|H|dj\rangle \langle gh|H|ab\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_g - E_h - E_i)(E_a + E_b + E_e + E_f - E_g - E_h - E_i - E_j)(E_e + E_f - E_i - E_j)} \quad (639)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|gj\rangle \langle ef|H|dh\rangle \langle gh|H|ab\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_g - E_i - E_j)(E_a + E_b + E_e + E_f - E_g - E_h - E_i - E_j)(E_e + E_f - E_i - E_j)} \quad (640)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|fg\rangle \langle ef|H|ij\rangle \langle gh|H|ab\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_f - E_g)(E_a + E_b + E_d - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (641)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|fi\rangle \langle ef|H|gj\rangle \langle gh|H|ab\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_f - E_i)(E_a + E_b + E_d - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (642)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|gh\rangle \langle ef|H|ij\rangle \langle gh|H|ab\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_g - E_h)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (643)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|gi\rangle \langle ef|H|hj\rangle \langle gh|H|ab\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_g - E_i)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (644)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|ij\rangle \langle ef|H|gh\rangle \langle gh|H|ab\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_i - E_j)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (645)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ef\rangle \langle ef|H|ij\rangle \langle gh|H|ab\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_e - E_f - E_g)(E_a + E_b + E_d - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (646)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|ef\rangle \langle ef|H|gj\rangle \langle gh|H|ab\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_e - E_f - E_i)(E_a + E_b + E_d - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (647)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|eh\rangle \langle ef|H|ij\rangle \langle gh|H|ab\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_e - E_g - E_h)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (648)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ei\rangle \langle ef|H|hj\rangle \langle gh|H|ab\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_e - E_g - E_i)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (649)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|eg\rangle \langle ef|H|hj\rangle \langle gh|H|ab\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_e - E_g - E_i)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (650)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|ej\rangle \langle ef|H|gh\rangle \langle gh|H|ab\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_e - E_i - E_j)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (651)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|ij\rangle \langle ef|H|cd\rangle \langle gh|H|ab\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_e - E_f)(E_a + E_b + E_c + E_d - E_e - E_f - E_i - E_j)(E_a + E_b - E_i - E_j)(E_g + E_h - E_i - E_j)} \quad (652)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|fj\rangle \langle ef|H|cd\rangle \langle gh|H|ab\rangle \langle ij|H|gh\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_f - E_i - E_j)(E_a + E_b - E_i - E_j)(E_g + E_h - E_i - E_j)} \quad (653)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ij\rangle \langle ef|H|cd\rangle \langle gh|H|ab\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_a + E_b + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (654)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|gj\rangle \langle ef|H|cd\rangle \langle gh|H|ab\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_a + E_b + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (655)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ej\rangle \langle ef|H|cd\rangle \langle gh|H|ab\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_a + E_b + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (656)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|eg\rangle \langle ef|H|cd\rangle \langle gh|H|ab\rangle \langle ij|H|fh\rangle}{(E_a + E_b - E_i - E_j)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_a + E_b + E_f - E_g - E_i - E_j)(E_f + E_h - E_i - E_j)} \quad (657)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|hj\rangle \langle ef|H|cd\rangle \langle gh|H|ab\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_a + E_b + E_e + E_f - E_g - E_h - E_i - E_j)(E_e + E_f - E_i - E_j)} \quad (658)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|gh\rangle \langle ef|H|cd\rangle \langle gh|H|ab\rangle \langle ij|H|ef\rangle}{(E_a + E_b - E_i - E_j)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_a + E_b + E_e + E_f - E_g - E_h - E_i - E_j)(E_e + E_f - E_i - E_j)} \quad (659)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|gi\rangle \langle ef|H|cj\rangle \langle gh|H|ab\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_e - E_f)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_a + E_b + E_d - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (660)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|ij\rangle \langle ef|H|cg\rangle \langle gh|H|ab\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_e - E_f)(E_a + E_b + E_c + E_d - E_e - E_f - E_i - E_j)(E_a + E_b + E_d - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (661)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|fi\rangle \langle ef|H|cj\rangle \langle gh|H|ab\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_a + E_b + E_d - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (662)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|fg\rangle \langle ef|H|cj\rangle \langle gh|H|ab\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_a + E_b + E_d - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (663)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|fj\rangle \langle ef|H|cg\rangle \langle gh|H|ab\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_f - E_i - E_j)(E_a + E_b + E_d - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (664)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|hi\rangle \langle ef|H|cj\rangle \langle gh|H|ab\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (665)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ij\rangle \langle ef|H|ch\rangle \langle gh|H|ab\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (666)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|gh\rangle \langle ef|H|cj\rangle \langle gh|H|ab\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (667)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|gj\rangle \langle ef|H|ch\rangle \langle gh|H|ab\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (668)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ef\rangle \langle ef|H|cj\rangle \langle gh|H|ab\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_a + E_b + E_d - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (669)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|ef\rangle \langle ef|H|cg\rangle \langle gh|H|ab\rangle \langle ij|H|dh\rangle}{(E_a + E_b - E_i - E_j)(E_a + E_b + E_c + E_d - E_e - E_f - E_i - E_j)(E_a + E_b + E_d - E_g - E_i - E_j)(E_d + E_h - E_i - E_j)} \quad (670)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|eh\rangle \langle ef|H|cj\rangle \langle gh|H|ab\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (671)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ej\rangle \langle ef|H|ch\rangle \langle gh|H|ab\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (672)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|eg\rangle \langle ef|H|ch\rangle \langle gh|H|ab\rangle \langle ij|H|df\rangle}{(E_a + E_b - E_i - E_j)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_d + E_f - E_i - E_j)} \quad (673)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|gh\rangle \langle ef|H|ij\rangle \langle gh|H|ab\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_e - E_f)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_h)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_c + E_d - E_i - E_j)} \quad (674)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|gi\rangle \langle ef|H|hj\rangle \langle gh|H|ab\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_e - E_f)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_c + E_d - E_i - E_j)} \quad (675)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|fh\rangle \langle ef|H|ij\rangle \langle gh|H|ab\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_h)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_c + E_d - E_i - E_j)} \quad (676)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|fi\rangle \langle ef|H|hj\rangle \langle gh|H|ab\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_c + E_d - E_i - E_j)} \quad (677)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|fg\rangle \langle ef|H|hj\rangle \langle gh|H|ab\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_c + E_d - E_i - E_j)} \quad (678)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|fj\rangle \langle ef|H|gh\rangle \langle gh|H|ab\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_f - E_i - E_j)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_c + E_d - E_i - E_j)} \quad (679)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ef\rangle \langle ef|H|hj\rangle \langle gh|H|ab\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_c + E_d - E_i - E_j)} \quad (680)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|ef\rangle \langle ef|H|gh\rangle \langle gh|H|ab\rangle \langle ij|H|cd\rangle}{(E_a + E_b - E_i - E_j)(E_a + E_b + E_c + E_d - E_e - E_f - E_i - E_j)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_c + E_d - E_i - E_j)} \quad (681)$$

$$\frac{1}{N!}(-1)^{3+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|ef\rangle \langle ef|H|gi\rangle \langle gh|H|aj\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_c - E_d)(E_a + E_b - E_e - E_f)(E_a + E_b - E_g - E_i)(E_b + E_h - E_i - E_j)} \quad (682)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|eg\rangle \langle ef|H|ij\rangle \langle gh|H|af\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_c - E_d)(E_a + E_b - E_e - E_g)(E_a + E_b + E_f - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (683)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|ei\rangle \langle ef|H|gj\rangle \langle gh|H|af\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_c - E_d)(E_a + E_b - E_e - E_i)(E_a + E_b + E_f - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (684)$$

$$\frac{1}{N!}(-1)^{3+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|eg\rangle \langle ef|H|hi\rangle \langle gh|H|aj\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_c - E_d)(E_a + E_b - E_e - E_g)(E_a + E_b + E_f - E_g - E_h - E_i)(E_b + E_f - E_i - E_j)} \quad (685)$$

$$\frac{1}{N!}(-1)^{3+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|ei\rangle \langle ef|H|gh\rangle \langle gh|H|aj\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_c - E_d)(E_a + E_b - E_e - E_i)(E_a + E_b + E_f - E_g - E_h - E_i)(E_b + E_f - E_i - E_j)} \quad (686)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|gh\rangle \langle ef|H|ij\rangle \langle gh|H|ae\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_c - E_d)(E_a + E_b - E_g - E_h)(E_a + E_b + E_e + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (687)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|gi\rangle \langle ef|H|hj\rangle \langle gh|H|ae\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_c - E_d)(E_a + E_b - E_g - E_i)(E_a + E_b + E_e + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (688)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|ij\rangle \langle ef|H|gh\rangle \langle gh|H|ae\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_c - E_d)(E_a + E_b - E_i - E_j)(E_a + E_b + E_e + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (689)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|fg\rangle \langle ef|H|di\rangle \langle gh|H|aj\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_f - E_g)(E_a + E_b - E_g - E_i)(E_b + E_h - E_i - E_j)} \quad (690)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|fi\rangle \langle ef|H|dg\rangle \langle gh|H|aj\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_f - E_i)(E_a + E_b - E_g - E_i)(E_b + E_h - E_i - E_j)} \quad (691)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|gi\rangle \langle ef|H|dj\rangle \langle gh|H|af\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_g - E_i)(E_a + E_b + E_f - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (692)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|ij\rangle \langle ef|H|dg\rangle \langle gh|H|af\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_i - E_j)(E_a + E_b + E_f - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (693)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|gh\rangle \langle ef|H|di\rangle \langle gh|H|aj\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_g - E_h)(E_a + E_b + E_f - E_g - E_h - E_i)(E_b + E_f - E_i - E_j)} \quad (694)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|gi\rangle \langle ef|H|dh\rangle \langle gh|H|aj\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_g - E_i)(E_a + E_b + E_f - E_g - E_h - E_i)(E_b + E_f - E_i - E_j)} \quad (695)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ef\rangle \langle ef|H|di\rangle \langle gh|H|aj\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_e - E_f - E_g)(E_a + E_b - E_g - E_i)(E_b + E_h - E_i - E_j)} \quad (696)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|ef\rangle \langle ef|H|dg\rangle \langle gh|H|aj\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_e - E_f - E_i)(E_a + E_b - E_g - E_i)(E_b + E_h - E_i - E_j)} \quad (697)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ei\rangle \langle ef|H|dj\rangle \langle gh|H|af\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_e - E_g - E_i)(E_a + E_b + E_f - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (698)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|eg\rangle \langle ef|H|dj\rangle \langle gh|H|af\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_e - E_g - E_i)(E_a + E_b + E_f - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (699)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|ej\rangle \langle ef|H|dg\rangle \langle gh|H|af\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_e - E_i - E_j)(E_a + E_b + E_f - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (700)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|eh\rangle \langle ef|H|di\rangle \langle gh|H|aj\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_e - E_g - E_h)(E_a + E_b + E_f - E_g - E_h - E_i)(E_b + E_f - E_i - E_j)} \quad (701)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ei\rangle \langle ef|H|dh\rangle \langle gh|H|aj\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_e - E_g - E_i)(E_a + E_b + E_f - E_g - E_h - E_i)(E_b + E_f - E_i - E_j)} \quad (702)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|eg\rangle \langle ef|H|dh\rangle \langle gh|H|aj\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_e - E_g - E_i)(E_a + E_b + E_f - E_g - E_h - E_i)(E_b + E_f - E_i - E_j)} \quad (703)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|hi\rangle \langle ef|H|dj\rangle \langle gh|H|ae\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_g - E_h - E_i)(E_a + E_b + E_e + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (704)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ij\rangle \langle ef|H|dh\rangle \langle gh|H|ae\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_g - E_i - E_j)(E_a + E_b + E_e + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (705)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|gh\rangle \langle ef|H|dj\rangle \langle gh|H|ae\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_g - E_h - E_i)(E_a + E_b + E_e + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (706)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|gj\rangle \langle ef|H|dh\rangle \langle gh|H|ae\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_g - E_i - E_j)(E_a + E_b + E_e + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (707)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|fg\rangle \langle ef|H|ij\rangle \langle gh|H|ad\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_f - E_g)(E_a + E_b + E_d - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (708)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|fi\rangle \langle ef|H|gj\rangle \langle gh|H|ad\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_f - E_i)(E_a + E_b + E_d - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (709)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|gh\rangle \langle ef|H|ij\rangle \langle gh|H|ad\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_g - E_h)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (710)$$

$$\frac{1}{N!}(-1)^{4+t} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|gi\rangle \langle ef|H|hj\rangle \langle gh|H|ad\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_g - E_i)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (711)$$

$$\frac{1}{N!}(-1)^{4+t} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|ij\rangle \langle ef|H|gh\rangle \langle gh|H|ad\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_i - E_j)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (712)$$

$$\frac{1}{N!}(-1)^{4+t} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ef\rangle \langle ef|H|ij\rangle \langle gh|H|ad\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_e - E_f - E_g)(E_a + E_b + E_d - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (713)$$

$$\frac{1}{N!}(-1)^{4+t} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|ef\rangle \langle ef|H|gj\rangle \langle gh|H|ad\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_e - E_f - E_i)(E_a + E_b + E_d - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (714)$$

$$\frac{1}{N!}(-1)^{4+t} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|eh\rangle \langle ef|H|ij\rangle \langle gh|H|ad\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_e - E_g - E_h)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (715)$$

$$\frac{1}{N!}(-1)^{4+t} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ei\rangle \langle ef|H|hj\rangle \langle gh|H|ad\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_e - E_g - E_i)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (716)$$

$$\frac{1}{N!}(-1)^{4+t} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|eg\rangle \langle ef|H|hj\rangle \langle gh|H|ad\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_e - E_g - E_i)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (717)$$

$$\frac{1}{N!}(-1)^{4+t} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|ej\rangle \langle ef|H|gh\rangle \langle gh|H|ad\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_e - E_i - E_j)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (718)$$

$$\frac{1}{N!}(-1)^{3+t} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|fg\rangle \langle ef|H|hi\rangle \langle gh|H|aj\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_f - E_g)(E_a + E_b + E_d - E_g - E_h - E_i)(E_b + E_d - E_i - E_j)} \quad (719)$$

$$\frac{1}{N!}(-1)^{3+t} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|fi\rangle \langle ef|H|gh\rangle \langle gh|H|aj\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_f - E_i)(E_a + E_b + E_d - E_g - E_h - E_i)(E_b + E_d - E_i - E_j)} \quad (720)$$

$$\frac{1}{N!}(-1)^{4+t} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|gh\rangle \langle ef|H|ij\rangle \langle gh|H|af\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_g - E_h)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (721)$$

$$\frac{1}{N!}(-1)^{4+t} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|gi\rangle \langle ef|H|hj\rangle \langle gh|H|af\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_g - E_i)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (722)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|ij\rangle \langle ef|H|gh\rangle \langle gh|H|af\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_i - E_j)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (723)$$

$$\frac{1}{N!}(-1)^{3+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ef\rangle \langle ef|H|hi\rangle \langle gh|H|aj\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_e - E_f - E_g)(E_a + E_b + E_d - E_g - E_h - E_i)(E_b + E_d - E_i - E_j)} \quad (724)$$

$$\frac{1}{N!}(-1)^{3+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|ef\rangle \langle ef|H|gh\rangle \langle gh|H|aj\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_e - E_f - E_i)(E_a + E_b + E_d - E_g - E_h - E_i)(E_b + E_d - E_i - E_j)} \quad (725)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|eh\rangle \langle ef|H|ij\rangle \langle gh|H|af\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_e - E_g - E_h)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (726)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ei\rangle \langle ef|H|hj\rangle \langle gh|H|af\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_e - E_g - E_i)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (727)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|eg\rangle \langle ef|H|hj\rangle \langle gh|H|af\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_e - E_g - E_i)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (728)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|ej\rangle \langle ef|H|gh\rangle \langle gh|H|af\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_e - E_i - E_j)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (729)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|gi\rangle \langle ef|H|cd\rangle \langle gh|H|aj\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_e - E_f)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_a + E_b - E_g - E_i)(E_b + E_h - E_i - E_j)} \quad (730)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|fi\rangle \langle ef|H|cd\rangle \langle gh|H|aj\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_a + E_b - E_g - E_i)(E_b + E_h - E_i - E_j)} \quad (731)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|fg\rangle \langle ef|H|cd\rangle \langle gh|H|aj\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_a + E_b - E_g - E_i)(E_b + E_h - E_i - E_j)} \quad (732)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ij\rangle \langle ef|H|cd\rangle \langle gh|H|af\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_a + E_b + E_f - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (733)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|gj\rangle \langle ef|H|cd\rangle \langle gh|H|af\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_a + E_b + E_f - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (734)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|hi\rangle \langle ef|H|cd\rangle \langle gh|H|aj\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_a + E_b + E_f - E_g - E_h - E_i)(E_b + E_f - E_i - E_j)} \quad (735)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|gh\rangle \langle ef|H|cd\rangle \langle gh|H|aj\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_a + E_b + E_f - E_g - E_h - E_i)(E_b + E_f - E_i - E_j)} \quad (736)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ej\rangle \langle ef|H|cd\rangle \langle gh|H|af\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_a + E_b + E_f - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (737)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|eg\rangle \langle ef|H|cd\rangle \langle gh|H|af\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_i - E_j)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_a + E_b + E_f - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (738)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ei\rangle \langle ef|H|cd\rangle \langle gh|H|aj\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_g - E_h)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_a + E_b + E_f - E_g - E_h - E_i)(E_b + E_f - E_i - E_j)} \quad (739)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|eh\rangle \langle ef|H|cd\rangle \langle gh|H|aj\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_a + E_b + E_f - E_g - E_h - E_i)(E_b + E_f - E_i - E_j)} \quad (740)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ij\rangle \langle ef|H|cd\rangle \langle gh|H|ae\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_g - E_h)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_a + E_b + E_e + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (741)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|hj\rangle \langle ef|H|cd\rangle \langle gh|H|ae\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_a + E_b + E_e + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (742)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|gh\rangle \langle ef|H|cd\rangle \langle gh|H|ae\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_i - E_j)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_a + E_b + E_e + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (743)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|gi\rangle \langle ef|H|cj\rangle \langle gh|H|ad\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_e - E_f)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_a + E_b + E_d - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (744)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|ij\rangle \langle ef|H|cg\rangle \langle gh|H|ad\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_e - E_f)(E_a + E_b + E_c + E_d - E_e - E_f - E_i - E_j)(E_a + E_b + E_d - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (745)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|fi\rangle \langle ef|H|cj\rangle \langle gh|H|ad\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_a + E_b + E_d - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (746)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|fg\rangle \langle ef|H|cj\rangle \langle gh|H|ad\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_a + E_b + E_d - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (747)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|fj\rangle \langle ef|H|cg\rangle \langle gh|H|ad\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_f - E_i - E_j)(E_a + E_b + E_d - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (748)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|hi\rangle \langle ef|H|cj\rangle \langle gh|H|ad\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (749)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ij\rangle \langle ef|H|ch\rangle \langle gh|H|ad\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (750)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|gh\rangle \langle ef|H|cj\rangle \langle gh|H|ad\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (751)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|gj\rangle \langle ef|H|ch\rangle \langle gh|H|ad\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (752)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ef\rangle \langle ef|H|cj\rangle \langle gh|H|ad\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_a + E_b + E_d - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (753)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|ef\rangle \langle ef|H|cg\rangle \langle gh|H|ad\rangle \langle ij|H|bh\rangle}{(E_a + E_b - E_i - E_j)(E_a + E_b + E_c + E_d - E_e - E_f - E_i - E_j)(E_a + E_b + E_d - E_g - E_i - E_j)(E_b + E_h - E_i - E_j)} \quad (754)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ei\rangle \langle ef|H|cj\rangle \langle gh|H|ad\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_g - E_h)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (755)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|eh\rangle \langle ef|H|cj\rangle \langle gh|H|ad\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (756)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ej\rangle \langle ef|H|ch\rangle \langle gh|H|ad\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (757)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|eg\rangle \langle ef|H|ch\rangle \langle gh|H|ad\rangle \langle ij|H|bf\rangle}{(E_a + E_b - E_i - E_j)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_f - E_i - E_j)} \quad (758)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|gh\rangle \langle ef|H|ci\rangle \langle gh|H|aj\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_e - E_f)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_h)(E_a + E_b + E_d - E_g - E_h - E_i)(E_b + E_d - E_i - E_j)} \quad (759)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|gi\rangle \langle ef|H|ch\rangle \langle gh|H|aj\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_e - E_f)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_a + E_b + E_d - E_g - E_h - E_i)(E_b + E_d - E_i - E_j)} \quad (760)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|fh\rangle \langle ef|H|ci\rangle \langle gh|H|aj\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_h)(E_a + E_b + E_d - E_g - E_h - E_i)(E_b + E_d - E_i - E_j)} \quad (761)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|fi\rangle \langle ef|H|ch\rangle \langle gh|H|aj\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_a + E_b + E_d - E_g - E_h - E_i)(E_b + E_d - E_i - E_j)} \quad (762)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|fg\rangle \langle ef|H|ch\rangle \langle gh|H|aj\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_a + E_b + E_d - E_g - E_h - E_i)(E_b + E_d - E_i - E_j)} \quad (763)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|hi\rangle \langle ef|H|cj\rangle \langle gh|H|af\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (764)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ij\rangle \langle ef|H|ch\rangle \langle gh|H|af\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (765)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|gh\rangle \langle ef|H|cj\rangle \langle gh|H|af\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (766)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|gj\rangle \langle ef|H|ch\rangle \langle gh|H|af\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (767)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ef\rangle \langle ef|H|ci\rangle \langle gh|H|aj\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_g - E_h)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_h)(E_a + E_b + E_d - E_g - E_h - E_i)(E_b + E_d - E_i - E_j)} \quad (768)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ef\rangle \langle ef|H|ch\rangle \langle gh|H|aj\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_a + E_b + E_d - E_g - E_h - E_i)(E_b + E_d - E_i - E_j)} \quad (769)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ei\rangle \langle ef|H|cj\rangle \langle gh|H|af\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_g - E_h)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (770)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|eh\rangle \langle ef|H|cj\rangle \langle gh|H|af\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (771)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ej\rangle \langle ef|H|ch\rangle \langle gh|H|af\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (772)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|eg\rangle \langle ef|H|ch\rangle \langle gh|H|af\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_i - E_j)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (773)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|gh\rangle \langle ef|H|ij\rangle \langle gh|H|ac\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_e - E_f)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_h)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (774)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|gi\rangle \langle ef|H|hj\rangle \langle gh|H|ac\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_e - E_f)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (775)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|ij\rangle \langle ef|H|gh\rangle \langle gh|H|ac\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_e - E_f)(E_a + E_b + E_c + E_d - E_e - E_f - E_i - E_j)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (776)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|fh\rangle \langle ef|H|ij\rangle \langle gh|H|ac\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_h)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (777)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|fi\rangle \langle ef|H|hj\rangle \langle gh|H|ac\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (778)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|fg\rangle \langle ef|H|hj\rangle \langle gh|H|ac\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (779)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|fj\rangle \langle ef|H|gh\rangle \langle gh|H|ac\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_f - E_i - E_j)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (780)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ef\rangle \langle ef|H|ij\rangle \langle gh|H|ac\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_g - E_h)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_h)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (781)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ef\rangle \langle ef|H|hj\rangle \langle gh|H|ac\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (782)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ij\rangle \langle cd|H|ef\rangle \langle ef|H|gh\rangle \langle gh|H|ac\rangle \langle ij|H|bd\rangle}{(E_a + E_b - E_i - E_j)(E_a + E_b + E_c + E_d - E_e - E_f - E_i - E_j)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_b + E_d - E_i - E_j)} \quad (783)$$

$$\frac{1}{N!}(-1)^{2+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|ef\rangle \langle ef|H|gh\rangle \langle gh|H|ij\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_c - E_d)(E_a + E_b - E_e - E_f)(E_a + E_b - E_g - E_h)(E_a + E_b - E_i - E_j)} \quad (784)$$

$$\frac{1}{N!}(-1)^{3+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|eg\rangle \langle ef|H|hi\rangle \langle gh|H|fj\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_c - E_d)(E_a + E_b - E_e - E_g)(E_a + E_b + E_f - E_g - E_h - E_i)(E_a + E_b - E_i - E_j)} \quad (785)$$

$$\frac{1}{N!}(-1)^{3+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|ei\rangle \langle ef|H|gh\rangle \langle gh|H|fj\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_c - E_d)(E_a + E_b - E_e - E_i)(E_a + E_b + E_f - E_g - E_h - E_i)(E_a + E_b - E_i - E_j)} \quad (786)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|gh\rangle \langle ef|H|ij\rangle \langle gh|H|ef\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_c - E_d)(E_a + E_b - E_g - E_h)(E_a + E_b + E_e + E_f - E_g - E_h - E_i - E_j)(E_a + E_b - E_i - E_j)} \quad (787)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cd\rangle \langle cd|H|gi\rangle \langle ef|H|hj\rangle \langle gh|H|ef\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_c - E_d)(E_a + E_b - E_g - E_i)(E_a + E_b + E_e + E_f - E_g - E_h - E_i - E_j)(E_a + E_b - E_i - E_j)} \quad (788)$$

$$\frac{1}{N!}(-1)^{3+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|fg\rangle \langle ef|H|dh\rangle \langle gh|H|ij\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_f - E_g)(E_a + E_b - E_g - E_h)(E_a + E_b - E_i - E_j)} \quad (789)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|gh\rangle \langle ef|H|di\rangle \langle gh|H|fj\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_g - E_h)(E_a + E_b + E_f - E_g - E_h - E_i)(E_a + E_b - E_i - E_j)} \quad (790)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|gi\rangle \langle ef|H|dh\rangle \langle gh|H|fj\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_g - E_i)(E_a + E_b + E_f - E_g - E_h - E_i)(E_a + E_b - E_i - E_j)} \quad (791)$$

$$\frac{1}{N!}(-1)^{3+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ef\rangle \langle ef|H|dh\rangle \langle gh|H|ij\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_e - E_f - E_g)(E_a + E_b - E_g - E_h)(E_a + E_b - E_i - E_j)} \quad (792)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|eh\rangle \langle ef|H|di\rangle \langle gh|H|fj\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_e - E_g - E_h)(E_a + E_b + E_f - E_g - E_h - E_i)(E_a + E_b - E_i - E_j)} \quad (793)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ei\rangle \langle ef|H|dh\rangle \langle gh|H|fj\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_e - E_g - E_i)(E_a + E_b + E_f - E_g - E_h - E_i)(E_a + E_b - E_i - E_j)} \quad (794)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|eg\rangle \langle ef|H|dh\rangle \langle gh|H|fj\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_e - E_g - E_i)(E_a + E_b + E_f - E_g - E_h - E_i)(E_a + E_b - E_i - E_j)} \quad (795)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|hi\rangle \langle ef|H|dj\rangle \langle gh|H|ef\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_g - E_h - E_i)(E_a + E_b + E_e + E_f - E_g - E_h - E_i - E_j)(E_a + E_b - E_i - E_j)} \quad (796)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ij\rangle \langle ef|H|dh\rangle \langle gh|H|ef\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_g - E_i - E_j)(E_a + E_b + E_e + E_f - E_g - E_h - E_i - E_j)(E_a + E_b - E_i - E_j)} \quad (797)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|gh\rangle \langle ef|H|dj\rangle \langle gh|H|ef\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_g - E_h - E_i)(E_a + E_b + E_e + E_f - E_g - E_h - E_i - E_j)(E_a + E_b - E_i - E_j)} \quad (798)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|gj\rangle \langle ef|H|dh\rangle \langle gh|H|ef\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_g - E_i - E_j)(E_a + E_b + E_e + E_f - E_g - E_h - E_i - E_j)(E_a + E_b - E_i - E_j)} \quad (799)$$

$$\frac{1}{N!}(-1)^{3+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|fg\rangle \langle ef|H|hi\rangle \langle gh|H|dj\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_f - E_g)(E_a + E_b + E_d - E_g - E_h - E_i)(E_a + E_b - E_i - E_j)} \quad (800)$$

$$\frac{1}{N!}(-1)^{3+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|fi\rangle \langle ef|H|gh\rangle \langle gh|H|dj\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_f - E_i)(E_a + E_b + E_d - E_g - E_h - E_i)(E_a + E_b - E_i - E_j)} \quad (801)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|gh\rangle \langle ef|H|ij\rangle \langle gh|H|df\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_g - E_h)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_a + E_b - E_i - E_j)} \quad (802)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|gi\rangle \langle ef|H|hj\rangle \langle gh|H|df\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_g - E_i)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_a + E_b - E_i - E_j)} \quad (803)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ce\rangle \langle cd|H|ij\rangle \langle ef|H|gh\rangle \langle gh|H|df\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_c - E_e)(E_a + E_b + E_d - E_e - E_i - E_j)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_a + E_b - E_i - E_j)} \quad (804)$$

$$\frac{1}{N!}(-1)^{3+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ef\rangle \langle ef|H|hi\rangle \langle gh|H|dj\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_e - E_f - E_g)(E_a + E_b + E_d - E_g - E_h - E_i)(E_a + E_b - E_i - E_j)} \quad (805)$$

$$\frac{1}{N!}(-1)^{3+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|ef\rangle \langle ef|H|gh\rangle \langle gh|H|dj\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_e - E_f - E_i)(E_a + E_b + E_d - E_g - E_h - E_i)(E_a + E_b - E_i - E_j)} \quad (806)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|eh\rangle \langle ef|H|ij\rangle \langle gh|H|df\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_e - E_g - E_h)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_a + E_b - E_i - E_j)} \quad (807)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|cg\rangle \langle cd|H|ei\rangle \langle ef|H|hj\rangle \langle gh|H|df\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_c - E_g)(E_a + E_b + E_d - E_e - E_g - E_i)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_a + E_b - E_i - E_j)} \quad (808)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|eg\rangle \langle ef|H|hj\rangle \langle gh|H|df\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_e - E_g - E_i)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_a + E_b - E_i - E_j)} \quad (809)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ci\rangle \langle cd|H|ej\rangle \langle ef|H|gh\rangle \langle gh|H|df\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_c - E_i)(E_a + E_b + E_d - E_e - E_i - E_j)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_a + E_b - E_i - E_j)} \quad (810)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|gh\rangle \langle ef|H|cd\rangle \langle gh|H|ij\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_e - E_f)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_h)(E_a + E_b - E_g - E_h)(E_a + E_b - E_i - E_j)} \quad (811)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|fh\rangle \langle ef|H|cd\rangle \langle gh|H|ij\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_h)(E_a + E_b - E_g - E_h)(E_a + E_b - E_i - E_j)} \quad (812)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|hi\rangle \langle ef|H|cd\rangle \langle gh|H|fj\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_a + E_b + E_f - E_g - E_h - E_i)(E_a + E_b - E_i - E_j)} \quad (813)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|gh\rangle \langle ef|H|cd\rangle \langle gh|H|fj\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_a + E_b + E_f - E_g - E_h - E_i)(E_a + E_b - E_i - E_j)} \quad (814)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ei\rangle \langle ef|H|cd\rangle \langle gh|H|fj\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_g - E_h)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_a + E_b + E_f - E_g - E_h - E_i)(E_a + E_b - E_i - E_j)} \quad (815)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|eh\rangle \langle ef|H|cd\rangle \langle gh|H|fj\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_a + E_b + E_f - E_g - E_h - E_i)(E_a + E_b - E_i - E_j)} \quad (816)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ij\rangle \langle ef|H|cd\rangle \langle gh|H|ef\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_g - E_h)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_a + E_b + E_e + E_f - E_g - E_h - E_i - E_j)(E_a + E_b - E_i - E_j)} \quad (817)$$

$$\frac{1}{N!}(-1)^{6+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|hj\rangle \langle ef|H|cd\rangle \langle gh|H|ef\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_a + E_b + E_e + E_f - E_g - E_h - E_i - E_j)(E_a + E_b - E_i - E_j)} \quad (818)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|gh\rangle \langle ef|H|ci\rangle \langle gh|H|dj\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_e - E_f)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_h)(E_a + E_b + E_d - E_g - E_h - E_i)(E_a + E_b - E_i - E_j)} \quad (819)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|gi\rangle \langle ef|H|ch\rangle \langle gh|H|dj\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_e - E_f)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_a + E_b + E_d - E_g - E_h - E_i)(E_a + E_b - E_i - E_j)} \quad (820)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|fh\rangle \langle ef|H|ci\rangle \langle gh|H|dj\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_h)(E_a + E_b + E_d - E_g - E_h - E_i)(E_a + E_b - E_i - E_j)} \quad (821)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|fi\rangle \langle ef|H|ch\rangle \langle gh|H|dj\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_a + E_b + E_d - E_g - E_h - E_i)(E_a + E_b - E_i - E_j)} \quad (822)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|fg\rangle \langle ef|H|ch\rangle \langle gh|H|dj\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_a + E_b + E_d - E_g - E_h - E_i)(E_a + E_b - E_i - E_j)} \quad (823)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|hi\rangle \langle ef|H|cj\rangle \langle gh|H|df\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_a + E_b - E_i - E_j)} \quad (824)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|ij\rangle \langle ef|H|ch\rangle \langle gh|H|df\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_a + E_b - E_i - E_j)} \quad (825)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|gh\rangle \langle ef|H|cj\rangle \langle gh|H|df\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_a + E_b - E_i - E_j)} \quad (826)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|gj\rangle \langle ef|H|ch\rangle \langle gh|H|df\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_a + E_b - E_i - E_j)} \quad (827)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ef\rangle \langle ef|H|ci\rangle \langle gh|H|dj\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_g - E_h)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_h)(E_a + E_b + E_d - E_g - E_h - E_i)(E_a + E_b - E_i - E_j)} \quad (828)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ef\rangle \langle ef|H|ch\rangle \langle gh|H|dj\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_a + E_b + E_d - E_g - E_h - E_i)(E_a + E_b - E_i - E_j)} \quad (829)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ei\rangle \langle ef|H|cj\rangle \langle gh|H|df\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_g - E_h)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_a + E_b - E_i - E_j)} \quad (830)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|eh\rangle \langle ef|H|cj\rangle \langle gh|H|df\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_h - E_i)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_a + E_b - E_i - E_j)} \quad (831)$$

$$\frac{1}{N!}(-1)^{5+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ej\rangle \langle ef|H|ch\rangle \langle gh|H|df\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_e - E_g - E_i - E_j)(E_a + E_b + E_d + E_f - E_g - E_h - E_i - E_j)(E_a + E_b - E_i - E_j)} \quad (832)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|gi\rangle \langle ef|H|hj\rangle \langle gh|H|cd\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_e - E_f)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_a + E_b - E_i - E_j)} \quad (833)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ef\rangle \langle cd|H|ij\rangle \langle ef|H|gh\rangle \langle gh|H|cd\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_e - E_f)(E_a + E_b + E_c + E_d - E_e - E_f - E_i - E_j)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_a + E_b - E_i - E_j)} \quad (834)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|fh\rangle \langle ef|H|ij\rangle \langle gh|H|cd\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_h)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_a + E_b - E_i - E_j)} \quad (835)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|eg\rangle \langle cd|H|fi\rangle \langle ef|H|hj\rangle \langle gh|H|cd\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_e - E_g)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_a + E_b - E_i - E_j)} \quad (836)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|fg\rangle \langle ef|H|hj\rangle \langle gh|H|cd\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_a + E_b - E_i - E_j)} \quad (837)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|ei\rangle \langle cd|H|fj\rangle \langle ef|H|gh\rangle \langle gh|H|cd\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_e - E_i)(E_a + E_b + E_c + E_d - E_e - E_f - E_i - E_j)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_a + E_b - E_i - E_j)} \quad (838)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|gh\rangle \langle cd|H|ef\rangle \langle ef|H|ij\rangle \langle gh|H|cd\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_g - E_h)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_h)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_a + E_b - E_i - E_j)} \quad (839)$$

$$\frac{1}{N!}(-1)^{4+l} \sum \frac{\langle ab|H|gi\rangle \langle cd|H|ef\rangle \langle ef|H|hj\rangle \langle gh|H|cd\rangle \langle ij|H|ab\rangle}{(E_a + E_b - E_g - E_i)(E_a + E_b + E_c + E_d - E_e - E_f - E_g - E_i)(E_a + E_b + E_c + E_d - E_g - E_h - E_i - E_j)(E_a + E_b - E_i - E_j)} \quad (840)$$