

T operator

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Similar to single reference coupled cluster (SRCC) theory, the T operator of GVB-LBCCC theory are block-based

$$T = T_1 + T_2 + T_3 + T_4$$

where:

$$T_0 =$$

$$T_1 = \sum_I \sum_i I_i^+ I_0^-$$

$$i = 1$$

$$i = 2$$

$$i = 3$$

$$T_2 = \sum_I \sum_i \sum_{J>I} \sum_j I_i^+ I_0^- J_j^+ J_0^-$$

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$$T_3 = \sum_I \sum_i \sum_{J>I} \sum_j \sum_{K>J>I} \sum_k I_i^+ I_0^- J_j^+ J_0^- K_k^+ K_0^-$$

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$$T_4 = \sum_I \sum_i \sum_{J>I} \sum_j \sum_{K>J>I} \sum_k \sum_{L>K>J>I} \sum_l I_i^+ I_0^- J_j^+ J_0^- K_k^+ K_0^- L_l^+ L_0^-$$

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