

# Autogen terms

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$$\begin{aligned}
& 2.0 \sum_{jcai} D_{ac}^{jk} < ic || lj > T_i^a E_l^k \\
& 1.0 \sum_{bcai} D_{bc}^{ik} < cb || la > T_i^a E_l^k \\
& - 1.0 \sum_{jbca} D_{bc}^{jk} < cb || ja > T_i^a E_i^k \\
& 1.0 \sum_{ijab} D_{ab}^{ij} < bl || mi > T_j^a E_m^l \\
& - 0.5 \sum_{ijab} D_{ab}^{ij} < bl || ji > T_k^a E_k^l \\
& 2.0 \sum_{iabk} D_a^i < kl || bi > T_{jk}^{ba} E_j^l \\
& 1.0 \sum_{iabc} D_a^i < al || cb > T_{ji}^{bc} E_j^l \\
& - 1.0 \sum_{abck} D_a^i < ak || cb > T_{jk}^{bc} E_j^i \\
& 1.0 \sum_{abij} D_b^i < jl || ma > T_{ij}^{ab} E_m^l \\
& - 0.5 \sum_{abij} D_b^k < ji || la > T_{ij}^{ab} E_l^k \\
& \text{-----} \\
& - 1.0 \sum_{jkci} D_{bc}^{jk} < ic || kj > T_i^a E_b^a \\
& 1.0 \sum_{jkai} D_{ba}^{jk} < id || kj > T_i^a E_b^d \\
& - 2.0 \sum_{kcai} D_{bc}^{ik} < cd || ka > T_i^a E_b^d \\
& 1.0 \sum_{ijab} D_{ab}^{ij} < bd || ei > T_j^a E_e^d \\
& - 0.5 \sum_{ijab} D_{ab}^{ij} < ba || di > T_j^c E_d^c \\
& - 1.0 \sum_{ibjk} D_a^i < kj || bi > T_{jk}^{bc} E_a^c \\
& 1.0 \sum_{iajk} D_a^i < kj || di > T_{jk}^{ac} E_d^c \\
& - 2.0 \sum_{iabj} D_a^i < aj || db > T_{ji}^{bc} E_d^c \\
& 1.0 \sum_{abij} D_b^i < jd || ea > T_{ij}^{ab} E_e^d \\
& - 0.5 \sum_{abij} D_c^i < jd || ba > T_{ij}^{ab} E_c^d \\
& \text{-----} \\
& - 0.25 \sum_{bca} D_{bc}^{jk} < cb || la > T_i^a E_{li}^{jk} \\
& 0.25 \sum_{bca} D_{bc}^{jk} < cb || ia > T_l^a E_{li}^{jk} \\
& 0.25 \sum_{iab} D_{ab}^{ij} < bl || mn > T_i^a E_{mn}^{jl} \\
& - 0.25 \sum_{iab} D_{ab}^{il} < bj || mn > T_i^a E_{mn}^{jl} \\
& - 0.25 \sum_{iab} D_{ab}^{ij} < bl || mi > T_k^a E_{mk}^{jl} \\
& 0.25 \sum_{iab} D_{ab}^{il} < bj || mi > T_k^a E_{mk}^{jl} \\
& 0.25 \sum_{iab} D_{ab}^{ij} < bl || ki > T_m^a E_{mk}^{jl} \\
& - 0.25 \sum_{iab} D_{ab}^{il} < bj || ki > T_m^a E_{mk}^{jl}
\end{aligned}$$

$$\begin{aligned}
& -0.5 \sum_{iab} D_a^i < lm || bi > T_{jk}^{ba} E_{jk}^{lm} \\
& -0.25 \sum_{abc} D_a^i < al || cb > T_{jk}^{bc} E_{jk}^{il} \\
& 0.25 \sum_{abc} D_a^l < ai || cb > T_{jk}^{bc} E_{jk}^{il} \\
& 0.25 \sum_{abj} D_b^j < lm || na > T_{ij}^{ab} E_{ni}^{lm} \\
& -0.25 \sum_{abj} D_b^j < lm || ia > T_{nj}^{ab} E_{ni}^{lm} \\
& -0.25 \sum_{abj} D_b^k < jl || ma > T_{ij}^{ab} E_{mi}^{kl} \\
& 0.25 \sum_{abj} D_b^l < jk || ma > T_{ij}^{ab} E_{mi}^{kl} \\
& 0.25 \sum_{abj} D_b^k < jl || ia > T_{mj}^{ab} E_{mi}^{kl} \\
& -0.25 \sum_{abj} D_b^l < jk || ia > T_{mj}^{ab} E_{mi}^{kl} \\
& - - - - - \\
& -0.25 \sum_{jki} D_{bc}^{jk} < id || kj > T_i^a E_{bc}^{da} \\
& 0.25 \sum_{jki} D_{bc}^{jk} < ia || kj > T_i^d E_{bc}^{da} \\
& 0.25 \sum_{ijb} D_{ab}^{ij} < de || fi > T_j^b E_{af}^{de} \\
& -0.25 \sum_{ijb} D_{fb}^{ij} < de || ai > T_j^b E_{af}^{de} \\
& 0.25 \sum_{ijb} D_{ab}^{ij} < bd || ei > T_j^c E_{ae}^{dc} \\
& -0.25 \sum_{ijb} D_{eb}^{ij} < bd || ai > T_j^c E_{ae}^{dc} \\
& -0.25 \sum_{ijb} D_{ab}^{ij} < bc || ei > T_j^d E_{ae}^{dc} \\
& 0.25 \sum_{ijb} D_{eb}^{ij} < bc || ai > T_j^d E_{ae}^{dc} \\
& -0.25 \sum_{ijk} D_a^i < kj || di > T_{jk}^{bc} E_{ad}^{bc} \\
& 0.25 \sum_{ijk} D_d^i < kj || ai > T_{jk}^{bc} E_{ad}^{bc} \\
& 0.25 \sum_{aij} D_a^i < jd || ef > T_{ij}^{ab} E_{ef}^{db} \\
& -0.25 \sum_{aij} D_a^i < jb || ef > T_{ij}^{ad} E_{ef}^{db} \\
& 0.25 \sum_{aij} D_c^i < jd || ea > T_{ij}^{ab} E_{ce}^{db} \\
& -0.25 \sum_{aij} D_e^i < jd || ca > T_{ij}^{ab} E_{ce}^{db} \\
& -0.25 \sum_{aij} D_c^i < jb || ea > T_{ij}^{ad} E_{ce}^{db} \\
& 0.25 \sum_{aij} D_e^i < jb || ca > T_{ij}^{ad} E_{ce}^{db} \\
& - - - - - \\
& 2.0 \sum_{jci} D_{bc}^{jk} < ic || lj > T_i^a E_{bl}^{ka} \\
& -2.0 \sum_{jai} D_{ba}^{jk} < id || lj > T_i^a E_{bl}^{kd} \\
& 2.0 \sum_{cai} D_{bc}^{ik} < cd || la > T_i^a E_{bl}^{kd} \\
& -2.0 \sum_{jca} D_{bc}^{jk} < cd || ja > T_i^a E_{bi}^{kd} \\
& 1.0 \sum_{ijb} D_{ab}^{ij} < bl || mi > T_j^c E_{am}^{lc} \\
& -1.0 \sum_{iab} D_{ab}^{ij} < bd || ei > T_k^a E_{ek}^{jd} \\
& 2.0 \sum_{ibk} D_a^i < kl || bi > T_{jk}^{bc} E_{aj}^{lc} \\
& -2.0 \sum_{iak} D_a^i < kl || di > T_{jk}^{ac} E_{dj}^{lc} \\
& 2.0 \sum_{iab} D_a^i < al || db > T_{ji}^{bc} E_{dj}^{lc} \\
& -2.0 \sum_{abk} D_a^i < ak || db > T_{jk}^{bc} E_{dj}^{lc} \\
& 1.0 \sum_{aij} D_c^i < jl || ma > T_{ij}^{ab} E_{cm}^{lb} \\
& -1.0 \sum_{abj} D_b^k < jd || ea > T_{ij}^{ab} E_{ei}^{kd} \\
& - - - - -
\end{aligned}$$

