

Autogen terms

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$$\begin{aligned}
& 6.0 \sum_{ibck} \langle ik || cb \rangle T_i^a T_j^b T_k^c E_j^a \\
& 2.0 \sum_{jbik} D_b^j \langle ik || lj \rangle T_i^a T_k^b E_l^a \\
& - 2.0 \sum_{jbic} D_b^j \langle ib || lc \rangle T_i^a T_j^c E_l^a \\
& 2.0 \sum_{jaic} D_a^j \langle id || lc \rangle T_i^a T_j^c E_l^d \\
& - 2.0 \sum_{jbic} D_b^j \langle ib || cj \rangle T_i^a T_k^c E_k^a \\
& 2.0 \sum_{jaic} D_a^j \langle id || cj \rangle T_i^a T_k^c E_k^d \\
& 2.0 \sum_{jbac} D_b^j \langle bd || ca \rangle T_i^a T_j^c E_i^d \\
& 1.0 \sum_{jbai} D_b^j \langle id || ja \rangle T_i^a T_k^b E_k^d \\
& 1.0 \sum_{jbai} D_b^j \langle ib || la \rangle T_i^a T_j^c E_l^c \\
& 2.0 \sum_{iajk} D_a^i \langle jk || li \rangle T_j^b T_k^a E_l^b \\
& 2.0 \sum_{iabk} D_a^i \langle kd || bi \rangle T_j^b T_k^a E_j^d \\
& - 2.0 \sum_{iacjk} D_a^i \langle kd || ci \rangle T_j^a T_k^c E_j^d \\
& - 2.0 \sum_{iacjk} D_a^i \langle ak || lc \rangle T_i^b T_k^c E_l^b \\
& 2.0 \sum_{iajc} D_a^i \langle aj || lc \rangle T_j^b T_i^c E_l^b \\
& 2.0 \sum_{iabc} D_a^i \langle ad || cb \rangle T_j^b T_i^c E_j^d \\
& 2.0 \sum_{iajc} D_a^i \langle aj || ci \rangle T_j^b T_k^c E_k^b \\
& 2.0 \sum_{jbia} D_b^j D_a^i \langle bd || li \rangle T_j^a E_l^d \\
& - 2.0 \sum_{jbia} D_b^j D_a^i \langle bd || ji \rangle T_k^a E_k^d \\
& - 2.0 \sum_{jbia} D_b^j D_a^i \langle ab || lj \rangle T_i^c E_l^c \\
& 2.0 \sum_{kaij} D_a^k \langle ij || lk \rangle T_i^a T_j^b E_l^b \\
& 2.0 \sum_{cibj} D_c^j \langle ic || lb \rangle T_i^a T_j^b E_l^a \\
& - 2.0 \sum_{aibj} D_a^j \langle id || lb \rangle T_i^a T_j^b E_l^d \\
& - 2.0 \sum_{kcib} D_c^k \langle ic || kb \rangle T_i^a T_j^b E_j^a \\
& 2.0 \sum_{kaij} D_a^k \langle id || kb \rangle T_i^a T_j^b E_j^d \\
& - 2.0 \sum_{cabj} D_c^j \langle cd || ba \rangle T_i^a T_j^b E_i^d \\
& - 2.0 \sum_{ciaj} D_c^j D_a^i \langle cd || li \rangle T_j^a E_l^d \\
& 1.0 \sum_{kcia} D_c^k D_a^i \langle cd || ki \rangle T_j^a E_j^d \\
& 1.0 \sum_{kcia} D_c^k D_a^i \langle ac || lk \rangle T_i^b E_l^b \\
& \text{-----} \\
& 0.75 \sum_{ijc} \langle ij || lc \rangle T_i^a T_j^b T_k^c E_{lk}^{ab}
\end{aligned}$$

$$\begin{aligned}
& -0.75 \sum_{ijc} \langle ij||kc \rangle T_i^a T_j^b T_l^c E_{lk}^{ab} \\
& -0.75 \sum_{ijc} \langle ij||lc \rangle T_i^b T_j^a T_k^c E_{lk}^{ab} \\
& 0.75 \sum_{ijc} \langle ij||kc \rangle T_i^b T_j^a T_l^c E_{lk}^{ab} \\
& -0.75 \sum_{ibc} \langle id||cb \rangle T_i^a T_j^b T_k^c E_{jk}^{da} \\
& 0.75 \sum_{ibc} \langle ia||cb \rangle T_i^d T_j^b T_k^c E_{jk}^{da} \\
& 0.75 \sum_{ibc} \langle id||cb \rangle T_i^a T_k^b T_j^c E_{jk}^{da} \\
& -0.75 \sum_{ibc} \langle ia||cb \rangle T_i^d T_k^b T_j^c E_{jk}^{da} \\
& -0.25 \sum_{jbi} D_b^j \langle id||lj \rangle T_i^a T_k^b E_{lk}^{da} \\
& 0.25 \sum_{jbi} D_b^j \langle ia||lj \rangle T_i^d T_k^b E_{lk}^{da} \\
& 0.25 \sum_{jbi} D_b^j \langle id||kj \rangle T_i^a T_l^b E_{lk}^{da} \\
& -0.25 \sum_{jbi} D_b^j \langle ia||kj \rangle T_i^d T_l^b E_{lk}^{da} \\
& 0.25 \sum_{jbi} D_b^j \langle ib||lm \rangle T_i^a T_j^c E_{lm}^{ac} \\
& -0.25 \sum_{jbi} D_b^j \langle ib||lm \rangle T_i^c T_j^a E_{lm}^{ac} \\
& -0.25 \sum_{jai} D_a^j \langle id||lm \rangle T_i^a T_j^c E_{lm}^{dc} \\
& 0.25 \sum_{jai} D_a^j \langle ic||lm \rangle T_i^a T_j^d E_{lm}^{dc} \\
& -0.25 \sum_{bai} D_b^i \langle de||la \rangle T_i^a T_k^b E_{lk}^{de} \\
& 0.25 \sum_{bai} D_b^i \langle de||ka \rangle T_i^a T_l^b E_{lk}^{de} \\
& 0.25 \sum_{jba} D_b^j \langle de||ja \rangle T_i^a T_k^b E_{ik}^{de} \\
& -0.25 \sum_{jba} D_b^j \langle de||ja \rangle T_k^a T_i^b E_{ik}^{de} \\
& 0.25 \sum_{jba} D_b^j \langle bd||la \rangle T_i^a T_j^c E_{li}^{dc} \\
& -0.25 \sum_{jba} D_b^j \langle bc||la \rangle T_i^a T_j^d E_{li}^{dc} \\
& -0.25 \sum_{jba} D_b^j \langle bd||ia \rangle T_l^a T_j^c E_{li}^{dc} \\
& 0.25 \sum_{jba} D_b^j \langle bc||ia \rangle T_l^a T_j^d E_{li}^{dc} \\
& -0.5 \sum_{iaj} D_a^i \langle jd||li \rangle T_j^b T_k^a E_{lk}^{db} \\
& 0.5 \sum_{iaj} D_a^i \langle jb||li \rangle T_j^d T_k^a E_{lk}^{db} \\
& 0.5 \sum_{iaj} D_a^i \langle jd||ki \rangle T_j^b T_l^a E_{lk}^{db} \\
& -0.5 \sum_{iaj} D_a^i \langle jb||ki \rangle T_j^d T_l^a E_{lk}^{db} \\
& -0.5 \sum_{iab} D_a^i \langle de||bi \rangle T_j^b T_k^a E_{jk}^{de} \\
& 0.5 \sum_{iab} D_a^i \langle de||bi \rangle T_k^b T_j^a E_{jk}^{de} \\
& 0.5 \sum_{iak} D_a^i \langle ak||lm \rangle T_i^b T_k^c E_{lm}^{bc} \\
& -0.5 \sum_{iak} D_a^i \langle ak||lm \rangle T_i^c T_k^b E_{lm}^{bc} \\
& 0.5 \sum_{iac} D_a^i \langle ad||lc \rangle T_i^b T_k^c E_{lk}^{db} \\
& -0.5 \sum_{iac} D_a^i \langle ab||lc \rangle T_i^d T_k^c E_{lk}^{db} \\
& -0.5 \sum_{iac} D_a^i \langle ad||kc \rangle T_i^b T_l^c E_{lk}^{db} \\
& 0.5 \sum_{iac} D_a^i \langle ab||kc \rangle T_i^d T_l^c E_{lk}^{db} \\
& - - - - - \\
& 2.0 \sum_{jaic} D_a^j \langle il||mc \rangle T_i^a T_j^c E_m^l \\
& -1.0 \sum_{aick} D_a^j \langle ik||lc \rangle T_i^a T_k^c E_l^j \\
& 2.0 \sum_{jaic} D_a^j \langle il||cj \rangle T_i^a T_k^c E_k^l \\
& 2.0 \sum_{jbac} D_b^j \langle bl||ca \rangle T_i^a T_j^c E_i^l
\end{aligned}$$

$$\begin{aligned}
& -2.0 \sum_{back} D_b^j < bk || ca > T_i^a T_k^c E_i^j \\
& 1.0 \sum_{jbai} D_b^j < il || ja > T_i^a T_k^b E_k^l \\
& 2.0 \sum_{iabk} D_a^i < kl || bi > T_j^b T_k^a E_j^l \\
& -2.0 \sum_{iac k} D_a^i < kl || ci > T_j^a T_k^c E_j^l \\
& 2.0 \sum_{iabc} D_a^i < al || cb > T_j^b T_i^c E_j^l \\
& -2.0 \sum_{abck} D_a^i < ak || cb > T_j^b T_k^c E_j^i \\
& 2.0 \sum_{jbai} D_b^j D_a^i < bl || mi > T_j^a E_m^l \\
& -2.0 \sum_{bia k} D_b^j D_a^i < bk || li > T_k^a E_l^j \\
& -2.0 \sum_{jbai} D_b^j D_a^i < bl || ji > T_k^a E_k^l \\
& 2.0 \sum_{jbac} D_b^j D_a^i < ab || lc > T_j^c E_l^i \\
& 2.0 \sum_{jbac} D_b^j D_a^i < ab || cj > T_k^c E_k^i \\
& -2.0 \sum_{aibj} D_a^j < il || mb > T_i^a T_j^b E_m^l \\
& 2.0 \sum_{kaib} D_a^k < il || kb > T_i^a T_j^b E_j^l \\
& 2.0 \sum_{aibj} D_a^k < ij || lb > T_i^a T_j^b E_l^k \\
& -2.0 \sum_{cabj} D_c^j < cl || ba > T_i^a T_j^b E_i^l \\
& -2.0 \sum_{cabj} D_c^k < jc || ba > T_i^a T_j^b E_i^k \\
& -2.0 \sum_{kbai} D_a^k D_b^j < ib || lk > T_i^a E_l^j \\
& 2.0 \sum_{kcai} D_c^k D_a^j < ic || lk > T_i^a E_l^j \\
& -2.0 \sum_{cbai} D_c^i D_b^j < bc || la > T_i^a E_l^j \\
& 2.0 \sum_{kcba} D_c^k D_b^j < bc || ka > T_i^a E_i^j \\
& -2.0 \sum_{ciaj} D_c^j D_a^i < cl || mi > T_j^a E_m^l \\
& 1.0 \sum_{kcia} D_c^k D_a^i < cl || ki > T_j^a E_j^l \\
& -2.0 \sum_{ciaj} D_c^k D_a^i < jc || li > T_j^a E_l^k \\
& -2.0 \sum_{cabj} D_c^j D_a^i < ac || lb > T_j^b E_l^i \\
& 2.0 \sum_{kcab} D_c^k D_a^i < ac || kb > T_j^b E_j^i \\
& -1.0 \sum_{iajb} D_b^k D_a^i < aj || li > T_j^b E_l^k \\
& \text{---} \\
& -2.0 \sum_{jick} D_b^j < ik || cj > T_i^a T_k^c E_b^a \\
& 2.0 \sum_{jbik} D_b^j < ik || dj > T_i^a T_k^b E_d^a \\
& -2.0 \sum_{jbic} D_b^j < ib || dc > T_i^a T_j^c E_d^a \\
& 2.0 \sum_{jaic} D_a^j < id || ec > T_i^a T_j^c E_e^d \\
& -1.0 \sum_{aick} D_b^j < kd || ca > T_i^a T_k^c E_b^d \\
& 1.0 \sum_{jbai} D_b^j < ib || da > T_i^a T_j^c E_d^c \\
& -2.0 \sum_{ijck} D_a^i < jk || ci > T_j^b T_k^c E_a^b \\
& 2.0 \sum_{iajk} D_a^i < jk || di > T_j^b T_k^a E_d^b \\
& -2.0 \sum_{iac k} D_a^i < ak || dc > T_i^b T_k^c E_d^b \\
& 2.0 \sum_{iajc} D_a^i < aj || dc > T_j^b T_i^c E_d^b \\
& -2.0 \sum_{jia k} D_b^j D_a^i < kd || ji > T_k^a E_b^d \\
& -2.0 \sum_{jbic} D_b^j D_a^i < bd || ci > T_j^c E_d^a \\
& 2.0 \sum_{jbai} D_b^j D_a^i < bd || ei > T_j^a E_e^d
\end{aligned}$$

$$\begin{aligned}
& 2.0 \sum_{jbik} D_b^j D_a^i < bk || ji > T_k^c E_a^c \\
& - 2.0 \sum_{jbia} D_b^j D_a^i < ab || dj > T_i^c E_d^c \\
& 2.0 \sum_{kaij} D_a^k < ij || dk > T_i^a T_j^b E_d^b \\
& 2.0 \sum_{cibj} D_c^j < ic || db > T_i^a T_j^b E_d^a \\
& - 2.0 \sum_{aibj} D_a^j < id || eb > T_i^a T_j^b E_e^d \\
& - 2.0 \sum_{kibj} D_c^k < ij || kb > T_i^a T_j^b E_c^a \\
& 2.0 \sum_{aibj} D_c^i < jd || ba > T_i^a T_j^b E_c^d \\
& 2.0 \sum_{kcji} D_c^k D_b^j < ic || kj > T_i^a E_b^a \\
& - 2.0 \sum_{kjai} D_a^k D_b^j < id || kj > T_i^a E_b^d \\
& 2.0 \sum_{kcai} D_c^k D_b^i < cd || ka > T_i^a E_b^d \\
& - 2.0 \sum_{cja i} D_c^i D_b^j < cd || ja > T_i^a E_b^d \\
& 2.0 \sum_{kci j} D_c^k D_a^i < jc || ki > T_j^b E_a^b \\
& - 2.0 \sum_{kibj} D_b^k D_a^i < jd || ki > T_j^b E_a^d \\
& 2.0 \sum_{cibj} D_c^j D_a^i < cd || bi > T_j^b E_a^d \\
& - 2.0 \sum_{ciaj} D_c^j D_a^i < cd || ei > T_j^a E_e^d \\
& 1.0 \sum_{kcia} D_c^k D_a^i < ac || dk > T_i^b E_d^b \\
& - 1.0 \sum_{iabj} D_c^j D_a^i < ad || bi > T_j^b E_c^d \\
& - - - - - \\
& - 0.25 \sum_{aic} D_a^j < il || mc > T_i^a T_k^c E_{mk}^{jl} \\
& 0.25 \sum_{aic} D_a^l < ij || mc > T_i^a T_k^c E_{mk}^{jl} \\
& 0.25 \sum_{aic} D_a^j < il || kc > T_i^a T_m^c E_{mk}^{jl} \\
& - 0.25 \sum_{aic} D_a^l < ij || kc > T_i^a T_m^c E_{mk}^{jl} \\
& - 0.25 \sum_{bai} D_b^i < lm || na > T_i^a T_k^b E_{nk}^{lm} \\
& 0.25 \sum_{bai} D_b^i < lm || ka > T_i^a T_n^b E_{nk}^{lm} \\
& 0.25 \sum_{jba} D_b^j < lm || ja > T_i^a T_k^b E_{ik}^{lm} \\
& - 0.25 \sum_{jba} D_b^j < lm || ja > T_k^a T_i^b E_{ik}^{lm} \\
& - 0.25 \sum_{bac} D_b^j < bl || ca > T_i^a T_k^c E_{ik}^{jl} \\
& 0.25 \sum_{bac} D_b^l < bj || ca > T_i^a T_k^c E_{ik}^{jl} \\
& 0.25 \sum_{bac} D_b^j < bl || ca > T_k^a T_i^c E_{ik}^{jl} \\
& - 0.25 \sum_{bac} D_b^l < bj || ca > T_k^a T_i^c E_{ik}^{jl} \\
& - 0.5 \sum_{iab} D_a^i < lm || bi > T_j^b T_k^a E_{jk}^{lm} \\
& 0.5 \sum_{iab} D_a^i < lm || bi > T_k^b T_j^a E_{jk}^{lm} \\
& - 0.25 \sum_{abc} D_a^i < al || cb > T_j^b T_k^c E_{jk}^{il} \\
& 0.25 \sum_{abc} D_a^l < ai || cb > T_j^b T_k^c E_{jk}^{il} \\
& 0.25 \sum_{abc} D_a^i < al || cb > T_k^b T_j^c E_{jk}^{il} \\
& - 0.25 \sum_{abc} D_a^l < ai || cb > T_k^b T_j^c E_{jk}^{il} \\
& - 0.5 \sum_{bia} D_b^j D_a^i < bl || mi > T_k^a E_{mk}^{jl} \\
& 0.5 \sum_{bia} D_b^l D_a^i < bj || mi > T_k^a E_{mk}^{jl} \\
& 0.5 \sum_{bia} D_b^j D_a^i < bl || ki > T_m^a E_{mk}^{jl} \\
& - 0.5 \sum_{bia} D_b^l D_a^i < bj || ki > T_m^a E_{mk}^{jl}
\end{aligned}$$

$$\begin{aligned}
& -0.25 \sum_{bac} D_b^j D_a^i < ab || lc > T_k^c E_{lk}^{ji} \\
& 0.25 \sum_{bac} D_b^i D_a^j < ab || lc > T_k^c E_{lk}^{ji} \\
& 0.25 \sum_{bac} D_b^j D_a^i < ab || kc > T_l^c E_{lk}^{ji} \\
& -0.25 \sum_{bac} D_b^i D_a^j < ab || kc > T_l^c E_{lk}^{ji} \\
& 0.5 \sum_{aib} D_a^k < il || mb > T_i^a T_j^b E_{mj}^{kl} \\
& -0.5 \sum_{aib} D_a^l < ik || mb > T_i^a T_j^b E_{mj}^{kl} \\
& -0.5 \sum_{aib} D_a^k < il || jb > T_i^a T_m^b E_{mj}^{kl} \\
& 0.5 \sum_{aib} D_a^l < ik || jb > T_i^a T_m^b E_{mj}^{kl} \\
& 0.25 \sum_{cab} D_c^k < cl || ba > T_i^a T_j^b E_{ij}^{kl} \\
& -0.25 \sum_{cab} D_c^l < ck || ba > T_i^a T_j^b E_{ij}^{kl} \\
& -0.25 \sum_{cab} D_c^k < cl || ba > T_j^a T_i^b E_{ij}^{kl} \\
& 0.25 \sum_{cab} D_c^l < ck || ba > T_j^a T_i^b E_{ij}^{kl} \\
& 0.5 \sum_{bai} D_a^k D_b^j < ib || lm > T_i^a E_{lm}^{kj} \\
& -0.5 \sum_{bai} D_a^j D_b^k < ib || lm > T_i^a E_{lm}^{kj} \\
& 0.25 \sum_{cba} D_c^k D_b^j < bc || la > T_i^a E_{li}^{kj} \\
& -0.25 \sum_{cba} D_c^j D_b^k < bc || la > T_i^a E_{li}^{kj} \\
& -0.25 \sum_{cba} D_c^k D_b^j < bc || ia > T_l^a E_{li}^{kj} \\
& 0.25 \sum_{cba} D_c^j D_b^k < bc || ia > T_l^a E_{li}^{kj} \\
& 0.25 \sum_{cia} D_c^k D_a^i < cl || mi > T_j^a E_{mj}^{kl} \\
& -0.25 \sum_{cia} D_c^l D_a^i < ck || mi > T_j^a E_{mj}^{kl} \\
& -0.25 \sum_{cia} D_c^k D_a^i < cl || ji > T_m^a E_{mj}^{kl} \\
& 0.25 \sum_{cia} D_c^l D_a^i < ck || ji > T_m^a E_{mj}^{kl} \\
& 0.25 \sum_{iab} D_b^k D_a^i < al || mn > T_i^b E_{mn}^{kl} \\
& -0.25 \sum_{iab} D_b^l D_a^i < ak || mn > T_i^b E_{mn}^{kl} \\
& -0.25 \sum_{abj} D_b^k D_a^i < aj || lm > T_j^b E_{lm}^{ki} \\
& 0.25 \sum_{abj} D_b^l D_a^i < aj || lm > T_j^b E_{lm}^{ki} \\
& 0.25 \sum_{cab} D_c^k D_a^i < ac || lb > T_j^b E_{lj}^{ki} \\
& -0.25 \sum_{cab} D_c^l D_a^i < ac || lb > T_j^b E_{lj}^{ki} \\
& -0.25 \sum_{cab} D_c^k D_a^i < ac || jb > T_l^b E_{lj}^{ki} \\
& 0.25 \sum_{cab} D_c^l D_a^i < ac || jb > T_l^b E_{lj}^{ki} \\
& \text{-----} \\
& 0.25 \sum_{jik} D_b^j < ik || dj > T_i^a T_k^c E_{bd}^{ac} \\
& -0.25 \sum_{jik} D_d^j < ik || bj > T_i^a T_k^c E_{bd}^{ac} \\
& -0.25 \sum_{jik} D_b^j < ik || dj > T_i^c T_k^a E_{bd}^{ac} \\
& 0.25 \sum_{jik} D_d^j < ik || bj > T_i^c T_k^a E_{bd}^{ac} \\
& 0.25 \sum_{jbi} D_b^j < ib || de > T_i^c T_j^a E_{de}^{ac} \\
& -0.25 \sum_{jbi} D_b^j < ib || de > T_i^c T_j^a E_{de}^{ac} \\
& -0.25 \sum_{jai} D_a^j < id || ef > T_i^a T_j^c E_{ef}^{dc} \\
& 0.25 \sum_{jai} D_a^j < ic || ef > T_i^a T_j^d E_{ef}^{dc} \\
& 0.25 \sum_{aik} D_b^i < kd || ea > T_i^a T_k^c E_{be}^{dc} \\
& -0.25 \sum_{aik} D_e^i < kd || ba > T_i^a T_k^c E_{be}^{dc}
\end{aligned}$$

$$\begin{aligned}
& -0.25 \sum_{aik} D_b^i < kc || ea > T_i^a T_k^d E_{be}^{dc} \\
& 0.25 \sum_{aik} D_e^i < kc || ba > T_i^a T_k^d E_{be}^{dc} \\
& 0.25 \sum_{ijk} D_a^i < jk || di > T_j^b T_k^c E_{ad}^{bc} \\
& -0.25 \sum_{ijk} D_d^i < jk || ai > T_j^b T_k^c E_{ad}^{bc} \\
& -0.25 \sum_{ijk} D_a^i < jk || di > T_j^c T_k^b E_{ad}^{bc} \\
& 0.25 \sum_{ijk} D_d^i < jk || ai > T_j^c T_k^b E_{ad}^{bc} \\
& 0.5 \sum_{iak} D_a^i < ak || de > T_i^b T_k^c E_{de}^{bc} \\
& -0.5 \sum_{iak} D_a^i < ak || de > T_i^c T_k^b E_{de}^{bc} \\
& 0.25 \sum_{jik} D_b^j D_a^i < kd || ji > T_k^c E_{ba}^{dc} \\
& -0.25 \sum_{jik} D_a^j D_b^i < kd || ji > T_k^c E_{ba}^{dc} \\
& -0.25 \sum_{jik} D_b^j D_a^i < kc || ji > T_k^d E_{ba}^{dc} \\
& 0.25 \sum_{jik} D_a^j D_b^i < kc || ji > T_k^d E_{ba}^{dc} \\
& 0.5 \sum_{jbi} D_b^j D_a^i < bd || ei > T_j^c E_{ae}^{dc} \\
& -0.5 \sum_{jbi} D_b^j D_e^i < bd || ai > T_j^c E_{ae}^{dc} \\
& -0.5 \sum_{jbi} D_b^j D_a^i < bc || ei > T_j^d E_{ae}^{dc} \\
& 0.5 \sum_{jbi} D_b^j D_e^i < bc || ai > T_j^d E_{ae}^{dc} \\
& -0.25 \sum_{kij} D_c^k < ij || dk > T_i^a T_j^b E_{cd}^{ab} \\
& 0.25 \sum_{kij} D_d^k < ij || ck > T_i^a T_j^b E_{cd}^{ab} \\
& 0.25 \sum_{kij} D_c^k < ij || dk > T_i^b T_j^a E_{cd}^{ab} \\
& -0.25 \sum_{kij} D_d^k < ij || ck > T_i^b T_j^a E_{cd}^{ab} \\
& -0.5 \sum_{ibj} D_c^j < id || eb > T_i^a T_j^b E_{ce}^{da} \\
& 0.5 \sum_{ibj} D_e^j < id || cb > T_i^a T_j^b E_{ce}^{da} \\
& 0.5 \sum_{ibj} D_c^j < ia || eb > T_i^d T_j^b E_{ce}^{da} \\
& -0.5 \sum_{ibj} D_e^j < ia || cb > T_i^d T_j^b E_{ce}^{da} \\
& -0.25 \sum_{kji} D_c^k D_b^j < id || kj > T_i^a E_{cb}^{da} \\
& 0.25 \sum_{kji} D_b^k D_c^j < id || kj > T_i^a E_{cb}^{da} \\
& 0.25 \sum_{kji} D_c^k D_b^j < ia || kj > T_i^d E_{cb}^{da} \\
& -0.25 \sum_{kji} D_b^k D_c^j < ia || kj > T_i^d E_{cb}^{da} \\
& -0.5 \sum_{kai} D_c^k D_b^i < de || ka > T_i^a E_{cb}^{de} \\
& 0.5 \sum_{kai} D_b^k D_c^i < de || ka > T_i^a E_{cb}^{de} \\
& -0.25 \sum_{kij} D_c^k D_a^i < jd || ki > T_j^b E_{ca}^{db} \\
& 0.25 \sum_{kij} D_a^k D_c^i < jd || ki > T_j^b E_{ca}^{db} \\
& 0.25 \sum_{kij} D_c^k D_a^i < jb || ki > T_j^d E_{ca}^{db} \\
& -0.25 \sum_{kij} D_a^k D_c^i < jb || ki > T_j^d E_{ca}^{db} \\
& -0.25 \sum_{ibj} D_c^j D_a^i < de || bi > T_j^b E_{ca}^{de} \\
& 0.25 \sum_{ibj} D_a^j D_c^i < de || bi > T_j^b E_{ca}^{de} \\
& 0.25 \sum_{iaj} D_c^j D_a^i < de || fi > T_j^a E_{cf}^{de} \\
& -0.25 \sum_{iaj} D_f^j D_a^i < de || ci > T_j^a E_{cf}^{de} \\
& -0.25 \sum_{kia} D_c^k D_a^i < ad || ek > T_i^b E_{ce}^{db} \\
& 0.25 \sum_{kia} D_e^k D_a^i < ad || ck > T_i^b E_{ce}^{db}
\end{aligned}$$

$$\begin{aligned}
& 0.25 \sum_{kia} D_c^k D_a^i \langle ab || ek \rangle T_i^d E_{ce}^{db} \\
& - 0.25 \sum_{kia} D_e^k D_a^i \langle ab || ck \rangle T_i^d E_{ce}^{db} \\
& \text{-----} \\
& 2.0 \sum_{jic} D_b^j \langle il || cj \rangle T_i^a T_k^c E_{bk}^{la} \\
& - 1.0 \sum_{jbi} D_b^j \langle il || dj \rangle T_i^a T_k^b E_{dk}^{la} \\
& 2.0 \sum_{bic} D_b^j \langle ib || dc \rangle T_i^a T_k^c E_{dk}^{ja} \\
& - 1.0 \sum_{aic} D_a^j \langle id || ec \rangle T_i^a T_k^c E_{ek}^{jd} \\
& 1.0 \sum_{aik} D_b^i \langle kl || ma \rangle T_i^a T_k^c E_{bm}^{lc} \\
& 1.0 \sum_{jba} D_b^j \langle bl || da \rangle T_i^a T_j^c E_{di}^{lc} \\
& 2.0 \sum_{ijc} D_a^i \langle jl || ci \rangle T_j^b T_k^c E_{ak}^{lb} \\
& - 2.0 \sum_{iaj} D_a^i \langle jl || di \rangle T_j^b T_k^c E_{dk}^{lb} \\
& 2.0 \sum_{iac} D_a^i \langle al || dc \rangle T_i^b T_k^c E_{dk}^{lb} \\
& - 2.0 \sum_{ajc} D_a^i \langle aj || dc \rangle T_j^b T_k^c E_{dk}^{ib} \\
& 2.0 \sum_{jbi} D_b^j D_a^i \langle bl || mi \rangle T_j^c E_{am}^{lc} \\
& - 2.0 \sum_{bik} D_b^j D_a^i \langle bk || li \rangle T_k^c E_{al}^{jc} \\
& 2.0 \sum_{bic} D_b^j D_a^i \langle bd || ci \rangle T_k^c E_{ak}^{jd} \\
& - 2.0 \sum_{bia} D_b^j D_a^i \langle bd || ei \rangle T_k^a E_{ek}^{jd} \\
& - 2.0 \sum_{ibj} D_c^j \langle il || mb \rangle T_i^a T_j^b E_{cm}^{la} \\
& 2.0 \sum_{kib} D_c^k \langle il || kb \rangle T_i^a T_j^b E_{cj}^{la} \\
& - 2.0 \sum_{cib} D_c^k \langle ic || db \rangle T_i^a T_j^b E_{dj}^{ka} \\
& 2.0 \sum_{aib} D_a^k \langle id || eb \rangle T_i^a T_j^b E_{ej}^{kd} \\
& - 2.0 \sum_{cji} D_c^k D_b^j \langle ic || lj \rangle T_i^a E_{bl}^{ka} \\
& 2.0 \sum_{jai} D_a^k D_b^j \langle id || lj \rangle T_i^a E_{bl}^{kd} \\
& - 2.0 \sum_{cai} D_c^k D_b^i \langle cd || la \rangle T_i^a E_{bl}^{kd} \\
& 2.0 \sum_{cja} D_c^k D_b^j \langle cd || ja \rangle T_i^a E_{bi}^{kd} \\
& - 2.0 \sum_{cij} D_c^k D_a^i \langle jc || li \rangle T_j^b E_{al}^{kb} \\
& 1.0 \sum_{ibj} D_b^k D_a^i \langle jd || li \rangle T_j^b E_{al}^{kd} \\
& - 2.0 \sum_{cib} D_c^k D_a^i \langle cd || bi \rangle T_j^b E_{aj}^{kd} \\
& 1.0 \sum_{cia} D_c^k D_a^i \langle cd || ei \rangle T_j^a E_{ej}^{kd} \\
& - 1.0 \sum_{kia} D_c^k D_a^i \langle al || mk \rangle T_i^b E_{cm}^{lb} \\
& - 1.0 \sum_{abj} D_c^j D_a^i \langle ad || lb \rangle T_j^b E_{cl}^{id} \\
& \text{-----}
\end{aligned}$$