

## Basic conventions

Minkowski metric tensor	Totally antisymmetric tensor	Four-momentum	Four-momentum norm	Massive rest-frame
$\eta_{\mu\nu}$	$\epsilon \eta_{\mu\nu\rho\sigma}$	$k^\mu$	$k^2 == k_\mu k^\mu$	$n^\mu == \frac{k^\mu}{k}$

Fundamental field	Symmetries	Decomposition in SO(3) irreps	Source
$\Gamma_{\alpha\beta\chi}$	Symmetry[3, $\Gamma^{\bullet 1 \bullet 2 \bullet 3}$ , { $\bullet 1 \rightarrow -a$ , $\bullet 2 \rightarrow -b$ , $\bullet 3 \rightarrow -c$ }, StrongGenSet[{ $\{\}$ , GenSet[[]]]	$ \begin{aligned} & -\frac{1}{2} \eta_{\alpha\chi} \Gamma^{\#1}_{1^-} \beta + \frac{1}{2} \eta_{\alpha\beta} \Gamma^{\#1}_{1^-} \chi + \frac{4}{3} \Gamma^{\#1}_{2^-} \beta \chi \alpha + \frac{1}{2} \Gamma^{\#2}_{2^-} \alpha \beta \chi + \frac{1}{2} \Gamma^{\#2}_{2^-} \alpha \beta \chi + \Gamma^{\#1}_{3^-} \alpha \beta \chi + \frac{1}{3} \eta_{\beta\chi} \Gamma^{\#6}_{1^-} \alpha - \frac{1}{6} \eta_{\alpha\chi} \Gamma^{\#6}_{1^-} \beta - \frac{1}{6} \eta_{\alpha\beta} \Gamma^{\#6}_{1^-} \chi + \frac{1}{15} \eta_{\beta\chi} \Gamma^{\#4}_{1^-} \alpha + \\ & \frac{1}{15} \eta_{\alpha\chi} \Gamma^{\#4}_{1^-} \beta + \frac{1}{15} \eta_{\alpha\beta} \Gamma^{\#4}_{1^-} \chi + \Gamma^{\#2}_{1^+} \beta \chi n_\alpha + \frac{1}{9} \eta_{\beta\chi} \Gamma^{\#3}_{0^+} n_\alpha + \frac{1}{3} \Gamma^{\#2}_{2^+} \beta \chi n_\alpha + \frac{2}{3} \Gamma^{\#3}_{2^+} \beta \chi n_\alpha + \frac{2}{9} \eta_{\beta\chi} \Gamma^{\#4}_{0^+} n_\alpha + \frac{1}{3} \eta_{\alpha\chi} \Gamma^{\#1}_{0^+} n_\beta - \Gamma^{\#1}_{1^+} \alpha \chi n_\beta + \\ & \Gamma^{\#1}_{2^+} \alpha \chi n_\beta + \frac{1}{9} \eta_{\alpha\chi} \Gamma^{\#3}_{0^+} n_\beta - \frac{1}{2} \Gamma^{\#3}_{1^+} \alpha \chi n_\beta + \frac{1}{3} \Gamma^{\#2}_{2^+} \alpha \chi n_\beta - \frac{1}{3} \Gamma^{\#3}_{2^+} \alpha \chi n_\beta - \frac{1}{9} \eta_{\alpha\chi} \Gamma^{\#4}_{0^+} n_\beta - \frac{1}{2} \Gamma^{\#1}_{1^-} \chi n_\alpha n_\beta - \Gamma^{\#2}_{1^-} \chi n_\alpha n_\beta + \frac{1}{6} \Gamma^{\#6}_{1^-} \chi n_\alpha n_\beta - \\ & \frac{1}{15} \Gamma^{\#4}_{1^-} \chi n_\alpha n_\beta - \frac{1}{3} \Gamma^{\#5}_{1^-} \chi n_\alpha n_\beta + \frac{1}{3} \Gamma^{\#3}_{1^-} \chi n_\alpha n_\beta - \frac{1}{3} \eta_{\alpha\beta} \Gamma^{\#1}_{0^+} n_\chi + \Gamma^{\#1}_{1^+} \alpha \beta n_\chi - \Gamma^{\#2}_{2^+} \alpha \beta n_\chi + \frac{1}{9} \eta_{\alpha\beta} \Gamma^{\#3}_{0^+} n_\chi - \frac{1}{2} \Gamma^{\#3}_{1^+} \alpha \beta n_\chi + \\ & \frac{1}{3} \Gamma^{\#2}_{2^+} \alpha \beta n_\chi - \frac{1}{3} \Gamma^{\#3}_{2^+} \alpha \beta n_\chi - \frac{1}{9} \eta_{\alpha\beta} \Gamma^{\#4}_{0^+} n_\chi + \frac{1}{2} \Gamma^{\#1}_{1^-} \beta n_\alpha n_\chi + \Gamma^{\#2}_{1^-} \beta n_\alpha n_\chi + \frac{1}{6} \Gamma^{\#6}_{1^-} \beta n_\alpha n_\chi - \frac{1}{15} \Gamma^{\#4}_{1^-} \beta n_\alpha n_\chi - \frac{1}{3} \Gamma^{\#5}_{1^-} \beta n_\alpha n_\chi + \\ & \frac{1}{3} \Gamma^{\#3}_{1^-} \beta n_\alpha n_\chi - \frac{1}{3} \Gamma^{\#6}_{1^-} \alpha n_\beta n_\chi - \frac{1}{15} \Gamma^{\#4}_{1^-} \alpha n_\beta n_\chi + \frac{2}{3} \Gamma^{\#5}_{1^-} \alpha n_\beta n_\chi + \frac{1}{3} \Gamma^{\#3}_{1^-} \alpha n_\beta n_\chi - \frac{1}{3} \Gamma^{\#3}_{0^+} n_\alpha n_\beta n_\chi + \Gamma^{\#2}_{0^+} n_\alpha n_\beta n_\chi - \frac{1}{6} \epsilon \eta_{\alpha\beta\chi\delta} \Gamma^{\#1}_{0^+} n^\delta \end{aligned} $	$\Delta_{\alpha\beta\chi}$

SO(3) irrep	Symmetries	Expansion in terms of the fundamental field	Source
$\Gamma_{0+}^{\#1}$	Symmetry[0, $\Gamma_{0+}^{\#1}$ , {}, StrongGenSet[{}, GenSet[]]]	$-\frac{1}{2}\Gamma_{\alpha}^{\beta}n_{\beta}+\frac{1}{2}\Gamma_{\alpha}^{\alpha\beta}n_{\beta}$	$\Delta_{0+}^{\#1}$
$\Gamma_{0+}^{\#2}$	Symmetry[0, $\Gamma_{0+}^{\#2}$ , {}, StrongGenSet[{}, GenSet[]]]	$\Gamma^{\alpha\beta\chi}n_{\alpha}n_{\beta}n_{\chi}$	$\Delta_{0+}^{\#2}$
$\Gamma_{0+}^{\#3}$	Symmetry[0, $\Gamma_{0+}^{\#3}$ , {}, StrongGenSet[{}, GenSet[]]]	$\Gamma_{\beta}^{\alpha\beta}n_{\alpha}+\Gamma_{\alpha}^{\alpha\beta}n_{\beta}+\Gamma_{\alpha}^{\alpha\beta}n_{\beta}-3\Gamma^{\alpha\beta\chi}n_{\alpha}n_{\beta}n_{\chi}$	$\Delta_{0+}^{\#3}$
$\Gamma_{0+}^{\#4}$	Symmetry[0, $\Gamma_{0+}^{\#4}$ , {}, StrongGenSet[{}, GenSet[]]]	$\Gamma_{\beta}^{\alpha\beta}n_{\alpha}-\frac{1}{2}\Gamma_{\alpha}^{\beta}n_{\beta}-\frac{1}{2}\Gamma_{\alpha}^{\alpha\beta}n_{\beta}$	$\Delta_{0+}^{\#4}$
$\Gamma_{0-}^{\#1}$	Symmetry[0, $\Gamma_{0-}^{\#1}$ , {}, StrongGenSet[{}, GenSet[]]]	$\epsilon\eta_{\alpha\beta\chi\delta}\Gamma^{\alpha\beta\chi}n^{\delta}$	$\Delta_{0-}^{\#1}$
$\Gamma_{1+}^{\#1\alpha\beta}$	Symmetry[2, $\Gamma_{1+}^{\#1\bullet1\bullet2}$ , { $\bullet1\rightarrow$ -a, $\bullet2\rightarrow$ -b}, StrongGenSet[{1, 2}, GenSet[-(1,2)]]]	$\frac{1}{4}\Gamma_{\alpha\beta}^{\chi}n_{\chi}-\frac{1}{4}\Gamma_{\alpha\beta}^{\chi}n_{\chi}-\frac{1}{4}\Gamma_{\beta\alpha}^{\chi}n_{\chi}+\frac{1}{4}\Gamma_{\beta\alpha}^{\chi}n_{\chi}-\frac{1}{4}\Gamma_{\beta}^{\chi\delta}n_{\alpha}n_{\chi}n_{\delta}+\frac{1}{4}\Gamma_{\beta}^{\chi\delta}n_{\alpha}n_{\chi}n_{\delta}+\frac{1}{4}\Gamma_{\alpha}^{\chi\delta}n_{\beta}n_{\chi}n_{\delta}-\frac{1}{4}\Gamma_{\alpha}^{\chi\delta}n_{\beta}n_{\chi}n_{\delta}$	$\Delta_{1+}^{\#1\alpha\beta}$
$\Gamma_{1+}^{\#2\alpha\beta}$	Symmetry[2, $\Gamma_{1+}^{\#2\bullet1\bullet2}$ , { $\bullet1\rightarrow$ -a, $\bullet2\rightarrow$ -b}, StrongGenSet[{1, 2}, GenSet[-(1,2)]]]	$\frac{1}{2}\Gamma_{\alpha\beta}^{\chi}n_{\chi}-\frac{1}{2}\Gamma_{\beta\alpha}^{\chi}n_{\chi}+\frac{1}{2}\Gamma_{\beta}^{\chi\delta}n_{\alpha}n_{\chi}n_{\delta}-\frac{1}{2}\Gamma_{\beta}^{\chi\delta}n_{\alpha}n_{\chi}n_{\delta}-\frac{1}{2}\Gamma_{\alpha}^{\chi\delta}n_{\beta}n_{\chi}n_{\delta}+\frac{1}{2}\Gamma_{\alpha}^{\chi\delta}n_{\beta}n_{\chi}n_{\delta}$	$\Delta_{1+}^{\#2\alpha\beta}$
$\Gamma_{1+}^{\#3\alpha\beta}$	Symmetry[2, $\Gamma_{1+}^{\#3\bullet1\bullet2}$ , { $\bullet1\rightarrow$ -a, $\bullet2\rightarrow$ -b}, StrongGenSet[{1, 2}, GenSet[-(1,2)]]]	$-\frac{1}{2}\Gamma_{\alpha\beta}^{\chi}n_{\chi}-\frac{1}{2}\Gamma_{\alpha\beta}^{\chi}n_{\chi}+\frac{1}{2}\Gamma_{\beta\alpha}^{\chi}n_{\chi}+\frac{1}{2}\Gamma_{\beta\alpha}^{\chi}n_{\chi}-\Gamma_{\beta}^{\chi\delta}n_{\alpha}n_{\chi}n_{\delta}+\frac{1}{2}\Gamma_{\beta}^{\chi\delta}n_{\alpha}n_{\chi}n_{\delta}+\frac{1}{2}\Gamma_{\alpha}^{\chi\delta}n_{\beta}n_{\chi}n_{\delta}-\frac{1}{2}\Gamma_{\alpha}^{\chi\delta}n_{\beta}n_{\chi}n_{\delta}$	$\Delta_{1+}^{\#3\alpha\beta}$
$\Gamma_{1-}^{\#1\alpha}$	Symmetry[1, $\Gamma_{1-}^{\#1\bullet1}$ , { $\bullet1\rightarrow$ -a}, StrongGenSet[{}, GenSet[]]]	$-\frac{1}{2}\Gamma_{\alpha\beta}^{\beta}+\frac{1}{2}\Gamma_{\beta\alpha}^{\beta}-\frac{1}{2}\Gamma_{\beta}^{\beta\chi}n_{\alpha}n_{\chi}+\frac{1}{2}\Gamma_{\beta}^{\beta\chi}n_{\alpha}n_{\chi}+\frac{1}{2}\Gamma_{\alpha}^{\beta\chi}n_{\beta}n_{\chi}-\frac{1}{2}\Gamma_{\alpha}^{\beta\chi}n_{\beta}n_{\chi}$	$\Delta_{1-}^{\#1\alpha}$
$\Gamma_{1-}^{\#2\alpha}$	Symmetry[1, $\Gamma_{1-}^{\#2\bullet1}$ , { $\bullet1\rightarrow$ -a}, StrongGenSet[{}, GenSet[]]]	$\frac{1}{2}\Gamma_{\alpha}^{\beta\chi}n_{\beta}n_{\chi}-\frac{1}{2}\Gamma^{\beta\chi\alpha}n_{\beta}n_{\chi}$	$\Delta_{1-}^{\#2\alpha}$
$\Gamma_{1-}^{\#3\alpha}$	Symmetry[1, $\Gamma_{1-}^{\#3\bullet1}$ , { $\bullet1\rightarrow$ -a}, StrongGenSet[{}, GenSet[]]]	$\Gamma_{\alpha}^{\beta\chi}n_{\beta}n_{\chi}+\Gamma_{\beta}^{\alpha\chi}n_{\beta}n_{\chi}+\Gamma_{\beta}^{\alpha\chi}n_{\beta}n_{\chi}-3\Gamma^{\beta\chi\delta}n_{\alpha}n_{\beta}n_{\chi}n_{\delta}$	$\Delta_{1-}^{\#3\alpha}$
$\Gamma_{1-}^{\#4\alpha}$	Symmetry[1, $\Gamma_{1-}^{\#4\bullet1}$ , { $\bullet1\rightarrow$ -a}, StrongGenSet[{}, GenSet[]]]	$\Gamma_{\alpha}^{\beta\chi}+\Gamma_{\alpha\beta}^{\beta}+\Gamma_{\beta\alpha}^{\beta}-\Gamma_{\beta}^{\beta\chi}n_{\alpha}n_{\chi}-\Gamma_{\beta}^{\beta\chi}n_{\alpha}n_{\chi}-\Gamma_{\beta}^{\beta\chi}n_{\alpha}n_{\chi}-\Gamma_{\alpha}^{\beta\chi}n_{\beta}n_{\chi}-\Gamma_{\alpha}^{\beta\chi}n_{\beta}n_{\chi}-\Gamma_{\alpha}^{\beta\chi}n_{\beta}n_{\chi}+3\Gamma^{\beta\chi\delta}n_{\alpha}n_{\beta}n_{\chi}n_{\delta}$	$\Delta_{1-}^{\#4\alpha}$
$\Gamma_{1-}^{\#5\alpha}$	Symmetry[1, $\Gamma_{1-}^{\#5\bullet1}$ , { $\bullet1\rightarrow$ -a}, StrongGenSet[{}, GenSet[]]]	$\Gamma_{\alpha}^{\beta\chi}n_{\beta}n_{\chi}-\frac{1}{2}\Gamma_{\alpha}^{\beta\chi}n_{\beta}n_{\chi}-\frac{1}{2}\Gamma^{\beta\chi\alpha}n_{\beta}n_{\chi}$	$\Delta_{1-}^{\#5\alpha}$
$\Gamma_{1-}^{\#6\alpha}$	Symmetry[1, $\Gamma_{1-}^{\#6\bullet1}$ , { $\bullet1\rightarrow$ -a}, StrongGenSet[{}, GenSet[]]]	$\Gamma_{\alpha}^{\beta\chi}-\frac{1}{2}\Gamma_{\alpha\beta}^{\beta}-\frac{1}{2}\Gamma_{\beta\alpha}^{\beta}-\Gamma_{\beta}^{\beta\chi}n_{\alpha}n_{\chi}+\frac{1}{2}\Gamma_{\beta}^{\beta\chi}n_{\alpha}n_{\chi}+\frac{1}{2}\Gamma_{\beta}^{\beta\chi}n_{\alpha}n_{\chi}-\Gamma_{\alpha}^{\beta\chi}n_{\beta}n_{\chi}+\frac{1}{2}\Gamma_{\alpha}^{\beta\chi}n_{\beta}n_{\chi}+\frac{1}{2}\Gamma_{\alpha}^{\beta\chi}n_{\beta}n_{\chi}$	$\Delta_{1-}^{\#6\alpha}$
$\Gamma_{2+}^{\#1\alpha\beta}$	Symmetry[2, $\Gamma_{2+}^{\#1\bullet1\bullet2}$ , { $\bullet1\rightarrow$ -a, $\bullet2\rightarrow$ -b}, StrongGenSet[{1, 2}, GenSet[(1,2)]]]	$-\frac{1}{4}\Gamma_{\alpha\beta}^{\chi}n_{\chi}+\frac{1}{4}\Gamma_{\alpha\beta}^{\chi}n_{\chi}-\frac{1}{4}\Gamma_{\beta\alpha}^{\chi}n_{\chi}+\frac{1}{4}\Gamma_{\beta\alpha}^{\chi}n_{\chi}+\frac{1}{6}\eta_{\alpha\beta}\Gamma_{\chi}^{\chi\delta}n_{\delta}-\frac{1}{6}\eta_{\alpha\beta}\Gamma_{\chi}^{\chi\delta}n_{\delta}-\frac{1}{6}\Gamma_{\chi}^{\chi\delta}n_{\alpha}n_{\beta}n_{\delta}+\frac{1}{6}\Gamma_{\chi}^{\chi\delta}n_{\alpha}n_{\beta}n_{\delta}+\frac{1}{4}\Gamma_{\beta}^{\chi\delta}n_{\alpha}n_{\chi}n_{\delta}-\frac{1}{4}\Gamma_{\beta}^{\chi\delta}n_{\alpha}n_{\chi}n_{\delta}+\frac{1}{4}\Gamma_{\alpha}^{\chi\delta}n_{\beta}n_{\chi}n_{\delta}-\frac{1}{4}\Gamma_{\alpha}^{\chi\delta}n_{\beta}n_{\chi}n_{\delta}$	$\Delta_{2+}^{\#1\alpha\beta}$
$\Gamma_{2+}^{\#2\alpha\beta}$	Symmetry[2, $\Gamma_{2+}^{\#2\bullet1\bullet2}$ , { $\bullet1\rightarrow$ -a, $\bullet2\rightarrow$ -b}, StrongGenSet[{1, 2}, GenSet[(1,2)]]]	$\frac{1}{2}\Gamma_{\alpha\beta}^{\chi}n_{\chi}+\frac{1}{2}\Gamma_{\alpha\beta}^{\chi}n_{\chi}+\frac{1}{2}\Gamma_{\beta\alpha}^{\chi}n_{\chi}+\frac{1}{2}\Gamma_{\beta\alpha}^{\chi}n_{\chi}+\frac{1}{2}\Gamma_{\alpha\beta}^{\chi}n_{\chi}+\frac{1}{2}\Gamma_{\beta\alpha}^{\chi}n_{\chi}-\frac{1}{3}\eta_{\alpha\beta}\Gamma_{\delta}^{\chi\delta}n_{\chi}+\frac{1}{3}\Gamma_{\delta}^{\chi\delta}n_{\alpha}n_{\beta}n_{\chi}-\frac{1}{3}\eta_{\alpha\beta}\Gamma_{\chi}^{\chi\delta}n_{\delta}-\frac{1}{3}\eta_{\alpha\beta}\Gamma_{\chi}^{\chi\delta}n_{\delta}+\frac{1}{3}\Gamma_{\chi}^{\chi\delta}n_{\alpha}n_{\beta}n_{\delta}+\frac{1}{3}\Gamma_{\chi}^{\chi\delta}n_{\alpha}n_{\beta}n_{\delta}-\Gamma_{\beta}^{\chi\delta}n_{\alpha}n_{\chi}n_{\delta}-\Gamma_{\beta}^{\chi\delta}n_{\alpha}n_{\chi}n_{\delta}-\Gamma_{\alpha}^{\chi\delta}n_{\beta}n_{\chi}n_{\delta}-\Gamma_{\alpha}^{\chi\delta}n_{\beta}n_{\chi}n_{\delta}+\eta_{\alpha\beta}\Gamma^{\chi\delta\epsilon}n_{\chi}n_{\delta}n_{\epsilon}+2\Gamma^{\chi\delta\epsilon}n_{\alpha}n_{\beta}n_{\chi}n_{\delta}n_{\epsilon}$	$\Delta_{2+}^{\#2\alpha\beta}$
$\Gamma_{2+}^{\#3\alpha\beta}$	Symmetry[2, $\Gamma_{2+}^{\#3\bullet1\bullet2}$ , { $\bullet1\rightarrow$ -a, $\bullet2\rightarrow$ -b}, StrongGenSet[{1, 2}, GenSet[(1,2)]]]	$-\frac{1}{4}\Gamma_{\alpha\beta}^{\chi}n_{\chi}-\frac{1}{4}\Gamma_{\alpha\beta}^{\chi}n_{\chi}-\frac{1}{4}\Gamma_{\beta\alpha}^{\chi}n_{\chi}-\frac{1}{4}\Gamma_{\beta\alpha}^{\chi}n_{\chi}+\frac{1}{2}\Gamma_{\alpha\beta}^{\chi}n_{\chi}+\frac{1}{2}\Gamma_{\beta\alpha}^{\chi}n_{\chi}-\frac{1}{3}\eta_{\alpha\beta}\Gamma_{\delta}^{\chi\delta}n_{\chi}+\frac{1}{3}\Gamma_{\delta}^{\chi\delta}n_{\alpha}n_{\beta}n_{\chi}+\frac{1}{6}\eta_{\alpha\beta}\Gamma_{\chi}^{\chi\delta}n_{\delta}+\frac{1}{6}\eta_{\alpha\beta}\Gamma_{\chi}^{\chi\delta}n_{\delta}-\frac{1}{6}\Gamma_{\chi}^{\chi\delta}n_{\alpha}n_{\beta}n_{\delta}-\frac{1}{6}\Gamma_{\chi}^{\chi\delta}n_{\alpha}n_{\beta}n_{\delta}+\frac{1}{2}\Gamma_{\beta}^{\chi\delta}n_{\alpha}n_{\chi}n_{\delta}-\frac{1}{4}\Gamma_{\beta}^{\chi\delta}n_{\alpha}n_{\chi}n_{\delta}-\frac{1}{4}\Gamma_{\alpha}^{\chi\delta}n_{\beta}n_{\chi}n_{\delta}-\frac{1}{4}\Gamma_{\alpha}^{\chi\delta}n_{\beta}n_{\chi}n_{\delta}$	$\Delta_{2+}^{\#3\alpha\beta}$
$\Gamma_{2-}^{\#1\alpha\beta\chi}$	Symmetry[3, $\Gamma_{2-}^{\#1\bullet1\bullet2\bullet3}$ , { $\bullet1\rightarrow$ -a, $\bullet2\rightarrow$ -b, $\bullet3\rightarrow$ -c}, StrongGenSet[{1, 2}, GenSet[-(1,2)]]]	$-\frac{1}{8}\Gamma_{\alpha\beta\chi}+\frac{1}{8}\Gamma_{\alpha\chi\beta}+\frac{1}{8}\Gamma_{\beta\alpha\chi}-\frac{1}{8}\Gamma_{\beta\chi\alpha}+\frac{1}{4}\Gamma_{\chi\alpha\beta}-\frac{1}{4}\Gamma_{\chi\beta\alpha}-\frac{3}{16}\eta_{\beta\chi}\Gamma_{\alpha\delta}^{\delta}+\frac{3}{16}\eta_{\alpha\chi}\Gamma_{\delta\beta}^{\delta}+\frac{3}{16}\eta_{\beta\chi}\Gamma_{\delta\alpha}^{\delta}-\frac{3}{16}\eta_{\alpha\chi}\Gamma_{\delta\beta}^{\delta}-\frac{3}{16}\Gamma_{\delta\beta}^{\delta}n_{\alpha}n_{\chi}+\frac{3}{16}\Gamma_{\alpha\delta}^{\delta}n_{\beta}n_{\chi}-\frac{3}{16}\Gamma_{\delta\alpha}^{\delta}n_{\beta}n_{\chi}+\frac{1}{8}\Gamma_{\beta\chi}^{\delta}n_{\alpha}n_{\delta}-\frac{1}{8}\Gamma_{\beta\chi}^{\delta}n_{\alpha}n_{\delta}+\frac{1}{4}\Gamma_{\chi\beta}^{\delta}n_{\alpha}n_{\delta}-\frac{1}{4}\Gamma_{\chi\beta}^{\delta}n_{\alpha}n_{\delta}+\frac{1}{8}\Gamma_{\beta\chi}^{\delta}n_{\alpha}n_{\delta}-\frac{1}{8}\Gamma_{\alpha\chi}^{\delta}n_{\beta}n_{\delta}+\frac{1}{8}\Gamma_{\alpha\chi}^{\delta}n_{\beta}n_{\delta}-\frac{1}{4}\Gamma_{\chi\alpha}^{\delta}n_{\beta}n_{\delta}+\frac{1}{4}\Gamma_{\chi\alpha}^{\delta}n_{\beta}n_{\delta}-\frac{1}{8}\Gamma_{\alpha\chi}^{\delta}n_{\beta}n_{\delta}+\frac{1}{8}\Gamma_{\alpha\chi}^{\delta}n_{\beta}n_{\delta}+\frac{1}{8}\Gamma_{\chi\alpha}^{\delta}n_{\beta}n_{\delta}+\frac{1}{8}\Gamma_{\chi\alpha}^{\delta}n_{\beta}n_{\delta}+\frac{1}{8}\Gamma_{\alpha\beta}^{\delta}n_{\chi}n_{\delta}-\frac{1}{8}\Gamma_{\alpha\beta}^{\delta}n_{\chi}n_{\delta}-\frac{1}{8}\Gamma_{\beta\alpha}^{\delta}n_{\chi}n_{\delta}+\frac{1}{8}\Gamma_{\beta\alpha}^{\delta}n_{\chi}n_{\delta}-\frac{1}{4}\Gamma_{\alpha\beta}^{\delta}n_{\chi}n_{\delta}+\frac{1}{4}\Gamma_{\beta\alpha}^{\delta}n_{\chi}n_{\delta}-\frac{3}{16}\eta_{\beta\chi}\Gamma_{\delta}^{\epsilon}n_{\alpha}n_{\epsilon}+\frac{3}{16}\eta_{\beta\chi}\Gamma_{\delta}^{\epsilon}n_{\alpha}n_{\epsilon}+\frac{3}{16}\eta_{\alpha\chi}\Gamma_{\delta}^{\epsilon}n_{\beta}n_{\epsilon}-\frac{3}{16}\eta_{\alpha\chi}\Gamma_{\delta}^{\epsilon}n_{\beta}n_{\epsilon}+\frac{3}{16}\eta_{\beta\chi}\Gamma_{\delta}^{\epsilon}n_{\alpha}n_{\epsilon}-\frac{3}{16}\eta_{\beta\chi}\Gamma_{\delta}^{\epsilon}n_{\alpha}n_{\epsilon}-\frac{3}{16}\eta_{\alpha\chi}\Gamma_{\delta}^{\epsilon}n_{\beta}n_{\epsilon}-\frac{3}{16}\eta_{\alpha\chi}\Gamma_{\delta}^{\epsilon}n_{\beta}n_{\epsilon}+\frac{3}{16}\eta_{\alpha\chi}\Gamma_{\delta}^{\epsilon}n_{\beta}n_{\epsilon}+\frac{3}{16}\eta_{\alpha\chi}\Gamma_{\delta}^{\epsilon}n_{\beta}n_{\epsilon}+\frac{3}{16}\eta_{\alpha\chi}\Gamma_{\delta}^{\epsilon}n_{\beta}n_{\epsilon}+\frac{3}{16}\eta_{\alpha\chi}\Gamma_{\delta}^{\epsilon}n_{\beta}n_{\epsilon}+\frac{3}{16}\eta_{\alpha\chi}\Gamma_{\delta}^{\epsilon}n_{\beta}n_{\epsilon}+\frac{3}{16}\eta_{\alpha\chi}\Gamma_{\delta}^{\epsilon}n_{\beta}n_{\epsilon}+\frac{3}{16}\eta_{\alpha\chi}\Gamma_{\delta}^{\epsilon}n_{\beta}n_{\epsilon}+\frac{3}{16}\eta_{\alpha\chi}\Gamma_{\delta}^{\epsilon}n_{\beta}n_{\epsilon}+\frac{3}{16}\eta_{\alpha\chi}\Gamma_{\delta}^{\epsilon}n_{\beta}n_{\epsilon}+\frac{3}{16}\eta_{\alpha\chi}\Gamma_{\delta}^{\epsilon}n_{\beta}n_{\epsilon}+\frac{3}{16}\eta_{\alpha\chi}\Gamma_{\delta}^{\epsilon}n_{\beta}n_{\epsilon}+\frac{3}{16}\eta_{\alpha\chi}\Gamma_{\delta}^{\epsilon}n_{\beta}n_{\epsilon}+\frac{3}{16}\eta_{\alpha\chi}\Gamma_{\delta}^{\epsilon}n_{\beta}n_{\epsilon}+\frac{3}{16}\eta_{\alpha\chi}\Gamma_{\delta}^{\epsilon}n_{\beta}n_{\epsilon}+\frac{3}{16}\eta_{\alpha\chi}\Gamma_{\delta}^{\epsilon}n_{\beta}n_{\epsilon}+\frac{3}{16}\eta_{\alpha\chi}\Gamma_{\delta}^{\epsilon}n_{\beta}n_{\epsilon}+\frac{3}{16}\eta_{\alpha\chi}\Gamma_{\delta}^{\epsilon}n_{\beta}n_{\epsilon}+\frac{3}{16}\eta_{\alpha\chi}\Gamma_{\delta}^{\epsilon}n_{\beta}n_{\epsilon}+\frac{3}{16}\eta_{\alpha\chi}\Gamma_{\delta}^{\epsilon}n_{\beta}n_{\epsilon}+\frac{3}{16}\eta_{\alpha\chi}\Gamma_{\delta}^{\epsilon}n_{\beta}n_{\epsilon}+\frac{3}{16}\eta_{\alpha\chi}\Gamma_{\delta}^{\epsilon}n_{\beta}n_{\epsilon}+\frac{3}{16}\eta_{\alpha\chi}\Gamma_{\delta}^{\epsilon}n_{\beta}n_{\epsilon}+\frac{3}{16}\eta_{\alpha\chi}\Gamma_{\delta}^{\epsilon}n_{\beta}n_{\epsilon}+\frac{3}{16}\eta_{\alpha\chi}\Gamma_{\delta}^{\epsilon}n_{\beta}n_{\epsilon}+\frac{3}{16}\eta_{\alpha\chi}\Gamma_{\delta}^{\epsilon}n_{\beta}n_{\epsilon}+\frac{3}{16}\eta_{\alpha\chi}\Gamma_{\delta}^{\epsilon}n_{\beta}n_{\epsilon}+\frac{3}{16}\eta_{\alpha\chi}\Gamma_{\delta}^{\epsilon}n_{\beta}n_{\epsilon}+\frac{3}{16}\eta_{\alpha\chi}\Gamma_{\delta}^{\epsilon}n_{\beta}n_{\epsilon}+\frac{3}{16}\eta_{\alpha\chi}\Gamma_{\delta}^{\epsilon}n_{\beta}n_{\epsilon}+\frac{3}{16}\eta_{\alpha\chi}\Gamma_{\delta}^{\epsilon}n_{\beta}n_{\epsilon}+\frac{3}{16}\eta_{\alpha\chi}\Gamma_{\delta}^{\epsilon}n_{\beta}n_{\epsilon}+\frac{3}{16}\eta_{\alpha\chi}\Gamma_{\delta}^{\epsilon}n_{\beta}n_{\epsilon}+\frac{3}{16}\eta_{\alpha\chi}\Gamma_{\delta}^{\epsilon}n_{\beta}n_{\epsilon}+\frac{3}{16}\eta_{\alpha\chi}\Gamma_{\delta}^{\epsilon}n_{\beta}n_{\eps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