

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^μ	$k^2 == k_\mu k^\mu$	$n^\mu == \frac{k^\mu}{k}$

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[$\{\}$]}]]	$-\frac{1}{2} \eta_{\alpha\chi} \Gamma^{\#1}_{1^-} \beta + \frac{1}{2} \eta_{\alpha\beta} \Gamma^{\#1}_{1^-} \chi + \frac{4}{3} \Gamma^{\#1}_{2^-} \beta\chi\alpha + \frac{1}{2} \Gamma^{\#2}_{2^-} \alpha\beta\chi + \frac{1}{2} \Gamma^{\#2}_{2^-} \alpha\beta\chi + \Gamma^{\#1}_{3^-} \alpha\beta\chi + \frac{1}{3} \eta_{\beta\chi} \Gamma^{\#6}_{1^-} \alpha - \frac{1}{6} \eta_{\alpha\chi} \Gamma^{\#6}_{1^-} \beta - \frac{1}{6} \eta_{\alpha\beta} \Gamma^{\#6}_{1^-} \chi + \frac{1}{15} \eta_{\beta\chi} \Gamma^{\#4}_{1^-} \alpha +$ $\frac{1}{15} \eta_{\alpha\chi} \Gamma^{\#4}_{1^-} \beta + \frac{1}{15} \eta_{\alpha\beta} \Gamma^{\#4}_{1^-} \chi + \Gamma^{\#2}_{0^+} \beta\chi n_\alpha + \frac{1}{9} \eta_{\beta\chi} \Gamma^{\#3}_{0^+} n_\alpha + \frac{1}{3} \Gamma^{\#2}_{2^+} \beta\chi n_\alpha + \frac{2}{3} \Gamma^{\#3}_{2^+} \beta\chi n_\alpha + \frac{2}{9} \eta_{\beta\chi} \Gamma^{\#4}_{0^+} n_\alpha + \frac{1}{3} \eta_{\alpha\chi} \Gamma^{\#0^+}_1 \beta - \Gamma^{\#1^+}_{1^+} \alpha\chi n_\beta +$ $\Gamma^{\#1}_{2^+} \alpha\chi n_\beta + \frac{1}{9} \eta_{\alpha\chi} \Gamma^{\#3}_{0^+} n_\beta - \frac{1}{2} \Gamma^{\#3}_{1^+} \alpha\chi n_\beta + \frac{1}{3} \Gamma^{\#2}_{2^+} \alpha\chi n_\beta - \frac{1}{3} \Gamma^{\#3}_{2^+} \alpha\chi n_\beta - \frac{1}{9} \eta_{\alpha\chi} \Gamma^{\#4}_{0^+} n_\beta - \frac{1}{2} \Gamma^{\#1}_{1^-} \chi n_\alpha n_\beta - \Gamma^{\#2}_{1^-} \chi n_\alpha n_\beta + \frac{1}{6} \Gamma^{\#6}_{1^-} \chi n_\alpha n_\beta -$ $\frac{1}{15} \Gamma^{\#4}_{1^-} \chi n_\alpha n_\beta - \frac{1}{3} \Gamma^{\#5}_{1^-} \chi n_\alpha n_\beta + \frac{1}{3} \Gamma^{\#3}_{1^-} \chi n_\alpha n_\beta - \frac{1}{3} \eta_{\alpha\beta} \Gamma^{\#0^+}_{1^+} n_\chi + \Gamma^{\#1}_{1^+} \alpha\beta n_\chi - \Gamma^{\#2}_{2^+} \alpha\beta n_\chi + \frac{1}{9} \eta_{\alpha\beta} \Gamma^{\#0^+}_{3^-} n_\chi - \frac{1}{2} \Gamma^{\#3}_{1^+} \alpha\beta n_\chi +$ $\frac{1}{3} \Gamma^{\#2}_{2^+} \alpha\beta n_\chi - \frac{1}{3} \Gamma^{\#3}_{2^+} \alpha\beta n_\chi - \frac{1}{9} \eta_{\alpha\beta} \Gamma^{\#4}_{0^+} n_\chi + \frac{1}{2} \Gamma^{\#1}_{1^-} \beta n_\alpha n_\chi + \Gamma^{\#2}_{1^-} \beta n_\alpha n_\chi + \frac{1}{6} \Gamma^{\#6}_{1^-} \beta n_\alpha n_\chi - \frac{1}{15} \Gamma^{\#4}_{1^-} \beta n_\alpha n_\chi - \frac{1}{3} \Gamma^{\#5}_{1^-} \beta n_\alpha n_\chi +$ $\frac{1}{3} \Gamma^{\#3}_{1^-} \beta n_\alpha n_\chi - \frac{1}{3} \Gamma^{\#6}_{1^-} \alpha n_\beta n_\chi - \frac{1}{15} \Gamma^{\#4}_{1^-} \alpha n_\beta n_\chi + \frac{2}{3} \Gamma^{\#5}_{1^-} \alpha n_\beta n_\chi + \frac{1}{3} \Gamma^{\#3}_{1^-} \alpha n_\beta n_\chi - \frac{1}{3} \Gamma^{\#3}_{0^+} n_\alpha n_\beta n_\chi + \Gamma^{\#2}_{0^+} n_\alpha n_\beta n_\chi - \frac{1}{6} \epsilon \eta_{\alpha\beta\chi\delta} \Gamma^{\#1}_{0^+} n^\delta$	$\Delta_{\alpha\beta\chi}$

SO(3) irrep	Symmetries	Expansion in terms of the fundamental field	Source
$\Gamma_{0+}^{\#1}$	Symmetry[0, $\Gamma_{0+}^{\#1}$, {}, StrongGenSet[{}, GenSet[]]]	$-\frac{1}{2}\Gamma_{\alpha}^{\alpha\beta}n_{\beta}+\frac{1}{2}\Gamma_{\alpha}^{\alpha\beta}n_{\beta}$	$\Delta_{0+}^{\#1}$
$\Gamma_{0+}^{\#2}$	Symmetry[0, $\Gamma_{0+}^{\#2}$, {}, StrongGenSet[{}, GenSet[]]]	$\Gamma^{\alpha\beta\chi}_{\alpha}n_{\alpha}n_{\beta}n_{\chi}$	$\Delta_{0+}^{\#2}$
$\Gamma_{0+}^{\#3}$	Symmetry[0, $\Gamma_{0+}^{\#3}$, {}, StrongGenSet[{}, GenSet[]]]	$\Gamma^{\alpha\beta}_{\beta}n_{\alpha}+\Gamma_{\alpha}^{\alpha\beta}n_{\beta}+\Gamma_{\alpha}^{\alpha\beta}n_{\beta}-3\Gamma^{\alpha\beta\chi}_{\alpha}n_{\alpha}n_{\beta}n_{\chi}$	$\Delta_{0+}^{\#3}$
$\Gamma_{0+}^{\#4}$	Symmetry[0, $\Gamma_{0+}^{\#4}$, {}, StrongGenSet[{}, GenSet[]]]	$\Gamma^{\alpha\beta}_{\beta}n_{\alpha}-\frac{1}{2}\Gamma_{\alpha}^{\alpha\beta}n_{\beta}-\frac{1}{2}\Gamma_{\alpha}^{\alpha\beta}n_{\beta}$	$\Delta_{0+}^{\#4}$
Γ_0^{-1}	Symmetry[0, Γ_0^{-1} , {}, StrongGenSet[{}, GenSet[]]]	$\epsilon\eta_{\alpha\beta\chi\delta}\Gamma^{\alpha\beta\chi}_{\alpha}n^{\delta}$	Δ_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)]]]	$-\frac{1}{2}\Gamma_{\alpha\beta}^{\chi}n_{\chi}-\frac{1}{2}\Gamma_{\alpha\beta}^{\chi}n_{\chi}+\frac{1}{2}\Gamma_{\beta\alpha}^{\chi}n_{\chi}+\frac{1}{2}\Gamma_{\beta\alpha}^{\chi}n_{\chi}-\Gamma_{\beta}^{\chi\delta}n_{\alpha}n_{\chi}n_{\delta}+\frac{1}{2}\Gamma_{\beta}^{\chi\delta}n_{\alpha}n_{\chi}n_{\delta}+\frac{1}{2}\Gamma_{\alpha}^{\chi\delta}n_{\beta}n_{\chi}n_{\delta}-\frac{1}{2}\Gamma_{\alpha}^{\chi\delta}n_{\beta}n_{\chi}n_{\delta}-\frac{1}{2}\Gamma_{\alpha}^{\chi\delta}n_{\beta}n_{\chi}n_{\delta}$	$\Delta_{1+}^{\#3\alpha\beta}$
$\Gamma_1^{-1\alpha}$	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[]]]	$\frac{1}{2}\Gamma_{\alpha}^{\beta\chi}n_{\beta}n_{\chi}-\frac{1}{2}\Gamma_{\alpha}^{\beta\chi}n_{\beta}n_{\chi}$	$\Delta_1^{-2\alpha}$
$\Gamma_1^{-3\alpha}$	Symmetry[1, $\Gamma_1^{-3\bullet1}$, { $\bullet1\rightarrow -a$ }, StrongGenSet[{}, GenSet[]]]	$\Gamma_{\alpha}^{\beta\chi}n_{\beta}n_{\chi}+\Gamma_{\alpha}^{\beta\chi}n_{\beta}n_{\chi}+\Gamma_{\alpha}^{\beta\chi}n_{\beta}n_{\chi}-3\Gamma^{\beta\chi\delta}_{\alpha}n_{\alpha}n_{\beta}n_{\chi}n_{\delta}$	$\Delta_1^{-3\alpha}$
$\Gamma_1^{-4\alpha}$	Symmetry[1, $\Gamma_1^{-4\bullet1}$, { $\bullet1\rightarrow -a$ }, StrongGenSet[{}, GenSet[]]]	$\Gamma_{\alpha}^{\beta}_{\beta}+\Gamma_{\alpha\beta}^{\beta}+\Gamma_{\beta\alpha}^{\beta}-\Gamma_{\beta\chi}^{\beta\chi}n_{\alpha}n_{\beta}-\Gamma_{\beta}^{\beta\chi}n_{\alpha}n_{\chi}-\Gamma_{\beta}^{\beta\chi}n_{\alpha}n_{\chi}-\Gamma_{\alpha}^{\beta\chi}n_{\beta}n_{\chi}-\Gamma_{\alpha}^{\beta\chi}n_{\beta}n_{\chi}-\Gamma_{\alpha}^{\beta\chi}n_{\beta}n_{\chi}+3\Gamma^{\beta\chi\delta}_{\alpha}n_{\alpha}n_{\beta}n_{\chi}n_{\delta}$	$\Delta_1^{-4\alpha}$
$\Gamma_1^{-5\alpha}$	Symmetry[1, $\Gamma_1^{-5\bullet1}$, { $\bullet1\rightarrow -a$ }, StrongGenSet[{}, GenSet[]]]	$\Gamma_{\alpha}^{\beta\chi}n_{\beta}n_{\chi}-\frac{1}{2}\Gamma_{\alpha}^{\beta\chi}n_{\beta}n_{\chi}-\frac{1}{2}\Gamma_{\alpha}^{\beta\chi}n_{\beta}n_{\chi}$	$\Delta_1^{-5\alpha}$
$\Gamma_1^{-6\alpha}$	Symmetry[1, $\Gamma_1^{-6\bullet1}$, { $\bullet1\rightarrow -a$ }, StrongGenSet[{}, GenSet[]]]	$\Gamma_{\alpha}^{\beta}_{\beta}-\frac{1}{2}\Gamma_{\alpha\beta}^{\beta}-\frac{1}{2}\Gamma_{\beta\alpha}^{\beta}-\Gamma_{\beta\chi}^{\beta\chi}n_{\alpha}n_{\beta}+\frac{1}{2}\Gamma_{\beta}^{\beta\chi}n_{\alpha}n_{\chi}+\frac{1}{2}\Gamma_{\beta}^{\beta\chi}n_{\alpha}n_{\chi}-\Gamma_{\alpha}^{\beta\chi}n_{\beta}n_{\chi}+\frac{1}{2}\Gamma_{\alpha}^{\beta\chi}n_{\beta}n_{\chi}+\frac{1}{2}\Gamma_{\alpha}^{\beta\chi}n_{\beta}n_{\chi}$	$\Delta_1^{-6\alpha}$
$\Gamma_{2+}^{\#1\alpha\beta}$	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)]]]	$\frac{1}{2}\Gamma_{\alpha\beta}^{\chi}n_{\chi}+\frac{1}{2}\Gamma_{\alpha\beta}^{\chi}n_{\chi}+\frac{1}{2}\Gamma_{\beta\alpha}^{\chi}n_{\chi}+\frac{1}{2}\Gamma_{\beta\alpha}^{\chi}n_{\chi}+\frac{1}{2}\Gamma_{\alpha\beta}^{\chi}n_{\chi}+\frac{1}{2}\Gamma_{\beta\alpha}^{\chi}n_{\chi}-\frac{1}{3}\eta_{\alpha\beta}\Gamma_{\delta}^{\chi\delta}n_{\chi}+\frac{1}{3}\Gamma_{\delta}^{\chi\delta}n_{\alpha}n_{\beta}n_{\chi}-\frac{1}{3}\eta_{\alpha\beta}\Gamma_{\chi}^{\chi\delta}n_{\delta}-\frac{1}{3}\eta_{\alpha\beta}\Gamma_{\chi}^{\chi\delta}n_{\delta}+\frac{1}{3}\Gamma_{\chi}^{\chi\delta}n_{\alpha}n_{\beta}n_{\delta}+\frac{1}{3}\Gamma_{\chi}^{\chi\delta}n_{\alpha}n_{\beta}n_{\delta}-\Gamma_{\beta}^{\chi\delta}n_{\alpha}n_{\chi}n_{\delta}-\Gamma_{\beta}^{\chi\delta}n_{\alpha}n_{\chi}n_{\delta}-\Gamma_{\alpha}^{\chi\delta}n_{\beta}n_{\chi}n_{\delta}+\eta_{\alpha\beta}\Gamma^{\chi\delta\epsilon}_{\chi}n_{\chi}n_{\delta}n_{\epsilon}+2\Gamma^{\chi\delta\epsilon}_{\alpha}n_{\alpha}n_{\beta}n_{\chi}n_{\delta}n_{\epsilon}$	$\Delta_{2+}^{\#2\alpha\beta}$
$\Gamma_{2+}^{\#3\alpha\beta}$	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^{\delta\alpha\delta}_{\alpha}+\frac{3}{16}\eta_{\alpha\chi}\Gamma^{\delta\beta\delta}_{\beta}+\frac{3}{16}\eta_{\beta\chi}\Gamma^{\delta\alpha\delta}_{\delta}-\frac{3}{16}\eta_{\alpha\chi}\Gamma^{\delta\delta\delta}_{\delta\beta}-\frac{3}{16}\Gamma^{\delta\delta\delta}_{\beta\delta}n_{\alpha}n_{\chi}+\frac{3}{16}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{3}{16}\Gamma^{\delta\delta\delta}_{\alpha\delta}n_{\beta}n_{\chi}-\frac{3}{16}\Gamma^{\delta\delta\delta}_{\delta\alpha}n_{\beta}n_{\chi}+\frac{1}{8}\Gamma_{\beta\chi}^{\delta}n_{\alpha}n_{\delta}-\frac{1}{8}\Gamma_{\chi\beta}^{\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_{\chi\beta}^{\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_{\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\delta\epsilon}_{\delta}n_{\alpha}n_{\epsilon}+\frac{3}{16}\eta_{\beta\chi}\Gamma^{\delta\delta\epsilon}_{\delta}n_{\alpha}n_{\epsilon}+\frac{3}{16}\eta_{\alpha\chi}\Gamma^{\delta\delta\epsilon}_{\delta}n_{\beta}n_{\epsilon}-\frac{3}{16}\eta_{\alpha\chi}\Gamma^{\delta\delta\epsilon}_{\delta}n_{\beta}n_{\epsilon}+\frac{3}{16}\eta_{\beta\chi}\Gamma^{\delta\delta\epsilon}_{\delta}n_{\alpha}n_{\epsilon}-\frac{3}{16}\eta_{\beta\chi}\Gamma^{\delta\delta\epsilon}_{\delta}n_{\alpha}n_{\epsilon}-\frac{3}{16}\eta_{\alpha\chi}\Gamma^{\delta\delta\epsilon}_{\beta}n_{\delta}n_{\epsilon}-\frac{3}{16}\eta_{\alpha\chi}\Gamma^{\delta\delta\epsilon}_{\beta}n_{\delta}n_{\epsilon}+\frac{3}{16}\Gamma^{\delta\delta\epsilon}_{\beta}n_{\alpha}n_{\chi}n_{\delta}n_{\epsilon}+\frac{3}{16}\Gamma^{\delta\delta\epsilon}_{\beta}n_{\alpha}n_{\chi}n_{\delta}n_{\epsilon}-\frac{3}{16}\Gamma^{\delta\delta\epsilon}_{\alpha}n_{\beta}n_{\chi}n_{\delta}n_{\epsilon}-\frac{3}{16}\Gamma^{\delta\delta\epsilon}_{\alpha}n_{\beta}n_{\chi}n_{\delta}n_{\epsilon}$	$\Delta_{2-}^{\#1\alpha\beta\chi}$
$\Gamma_{2-}^{\#2\alpha\beta\chi}$	Symmetry[3, $\Gamma_{2-}^{\#2\bullet1\bullet2\bullet3}$, { $\bullet1\rightarrow -a$, $\bullet2\rightarrow -b$, $\bullet3\rightarrow -c$ }, StrongGenSet[{1, 2}, GenSet[-(1,2)]]]	$\frac{1}{3}\Gamma_{\alpha\beta\chi}+\frac{1}{3}\Gamma_{\alpha\chi\beta}-\frac{1}{3}\eta_{\beta\chi}\Gamma_{\alpha}^{\delta\delta}-\frac{1}{3}\Gamma_{\beta\alpha\chi}-\frac{1}{3}\Gamma_{\beta\chi\alpha}+\frac{1}{3}\eta_{\alpha\chi}\Gamma_{\beta}^{\delta\delta}+\frac{1}{6}\eta_{\beta\chi}\Gamma^{\delta\alpha\delta}_{\alpha}-\frac{1}{6}\eta_{\alpha\chi}\Gamma^{\delta\beta\delta}_{\beta}+\frac{1}{6}\eta_{\beta\chi}\Gamma^{\delta\alpha\delta}_{\delta}-\frac{1}{6}\eta_{\alpha\chi}\Gamma^{\delta\delta\delta}_{\delta\beta}-\frac{1}{3}\Gamma_{\beta}^{\delta\delta}n_{\alpha}n_{\chi}+\frac{1}{6}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{3}\Gamma_{\alpha}^{\delta\delta}n_{\beta}n_{\chi}-\frac{1}{6}\Gamma^{\delta\delta\delta}_{\alpha\delta}n_{\beta}n_{\chi}-\frac{1}{6}\Gamma^{\delta\delta\delta}_{\delta\alpha}n_{\beta}n_{\chi}+\frac{1}{3}\Gamma_{\beta\chi}^{\delta}n_{\alpha}n_{\delta}+\frac{1}{3}\Gamma_{\beta\chi}^{\delta}n_{\alpha}n_{\delta}-\frac{1}{3}\Gamma_{\beta\chi}^{\delta}n_{\alpha}n_{\delta}-\frac{1}{3}\Gamma_{\beta\chi}^{\delta}n_{\alpha}n_{\delta}+\frac{1}{3}\Gamma_{\chi\beta}^{\delta}n_{\alpha}n_{\delta}+\frac{1}{3}\eta_{\beta\chi}\Gamma^{\delta\delta\epsilon}_{\epsilon}n_{\alpha}n_{\delta}-\frac{1}{3}\Gamma_{\alpha\chi}^{\delta}n_{\beta}n_{\delta}-\frac{1}{3}\Gamma_{\alpha\chi}^{\delta}n_{\beta}n_{\delta}+\frac{1}{3}\Gamma_{\chi\alpha}^{\delta}n_{\beta}n_{\delta}-\frac{1}{3}\eta_{\alpha\chi}\Gamma^{\delta\delta\epsilon}_{\epsilon}n_{\beta}n_{\delta}-\frac{1}{3}\Gamma_{\alpha\beta}^{\delta}n_{\chi}n_{\delta}-\frac{1}{3}\Gamma_{\alpha\beta}^{\delta}n_{\chi}n_{\delta}+\frac{1}{3}\Gamma_{\beta\alpha}^{\delta}n_{\chi}n_{\delta}+\frac{1}{3}\Gamma_{\beta\alpha}^{\delta}n_{\chi}n_{\delta}-\frac{1}{6}\eta_{\beta\chi}\Gamma^{\delta\delta\epsilon}_{\delta}n_{\alpha}n_{\epsilon}-\frac{1}{6}\eta_{\beta\chi}\Gamma^{\delta\delta\epsilon}_{\delta}n_{\alpha}n_{\epsilon}+\frac{1}{6}\eta_{\alpha\chi}\Gamma^{\delta\delta\epsilon}_{\delta}n_{\beta}n_{\epsilon}+\frac{1}{6}\eta_{\alpha\chi}\Gamma^{\delta\delta\epsilon}_{\delta}n_{\beta}n_{\epsilon}+\frac{1}{3}\eta_{\beta\chi}\Gamma_{\alpha}^{\delta\delta\epsilon}n_{\delta}n_{\epsilon}-\frac{1}{3}\eta_{\alpha\chi}\Gamma_{\beta}^{\delta\delta\epsilon}n_{\delta}n_{\epsilon}-\frac{1}{6}\eta_{\beta\chi}\Gamma^{\delta\delta\epsilon}_{\alpha}n_{\delta}n_{\epsilon}+\frac{1}{6}\eta_{\alpha\chi}\Gamma^{\delta\delta\epsilon}_{\beta}n_{\delta}n_{\epsilon}-\frac{1}{6}\eta_{\beta\chi}\Gamma^{\delta\delta\epsilon}_{\alpha}n_{\delta}n_{\epsilon}+\frac{1}{6}\eta_{\alpha\chi}\Gamma^{\delta\delta\epsilon}_{\beta}n_{\delta}n_{\epsilon}-\frac{1}{3}\Gamma_{\beta}^{\delta\delta\epsilon}n_{\alpha}n_{\chi}n_{\delta}n_{\epsilon}+\frac{1}{6}\Gamma^{\delta\delta\epsilon}_{\beta}n_{\alpha}n_{\chi}n_{\delta}n_{\epsilon}+\frac{1}{6}\Gamma^{\delta\delta\epsilon}_{\beta}n_{\alpha}n_{\chi}n_{\delta}n_{\epsilon}+\frac{1}{3}\Gamma_{\alpha}^{\delta\delta\epsilon}n_{\beta}n_{\chi}n_{\delta}n_{\epsilon}-\frac{1}{6}\Gamma^{\delta\delta\epsilon}_{\alpha}n_{\beta}n_{\chi}n_{\delta}n_{\epsilon}-\frac{1}{6}\Gamma^{\delta\delta\epsilon}_{\alpha}n_{\beta}n_{\chi}n_{\delta}n_{\epsilon}$	$\Delta_{2-}^{\#2\alpha\beta\chi}$
$\Gamma_{3-}^{\#1\alpha\beta\chi}$	Symmetry[3, $\Gamma_{3-}^{\#1\bullet1\bullet2\bullet3}$, { $\bullet1\rightarrow -a$, $\bullet2\rightarrow -b$, $\bullet3\rightarrow -c$ }, StrongGenSet[{1, 2, 3}, GenSet[(1,2), (2,3)]]]	$\frac{1}{6}\Gamma_{\alpha\beta\chi}+\frac{1}{6}\Gamma_{\alpha\chi\beta}-\frac{1}{15}\eta_{\beta\chi}\Gamma_{\alpha}^{\delta\delta}+\frac{1}{6}\Gamma_{\beta\alpha\chi}+\frac{1}{6}\Gamma_{\beta\chi\alpha}-\frac{1}{15}\eta_{\alpha\chi}\Gamma_{\beta}^{\delta\delta}+\frac{1}{6}\Gamma_{\chi\alpha\beta}+\frac{1}{6}\Gamma_{\chi\beta\alpha}-\frac{1}{15}\eta_{\alpha\beta}\Gamma_{\chi}^{\delta\delta}-\frac{1}{15}\eta_{\beta\chi}\Gamma^{\delta\alpha\delta}_{\alpha}-\frac{1}{15}\eta_{\alpha\chi}\Gamma^{\delta\beta\delta}_{\beta}-\frac{1}{15}\eta_{\alpha\beta}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\beta}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\chi}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\beta}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\chi}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\beta}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\chi}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\beta}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\chi}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\beta}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\chi}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\beta}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\chi}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\beta}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\chi}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\beta}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\chi}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\beta}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\chi}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\beta}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\chi}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\beta}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\chi}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\beta}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\chi}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\beta}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\chi}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\beta}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\chi}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\beta}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\chi}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\beta}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\chi}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\beta}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\chi}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\beta}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\chi}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\beta}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\chi}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\beta}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\chi}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\beta}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\chi}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\beta}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\chi}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\beta}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\chi}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\beta}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\chi}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n_{\chi}+\frac{1}{15}\eta_{\alpha\beta}\Gamma^{\delta\delta\delta}_{\delta\beta}n_{\alpha}n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