Field kinematics

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

Fundamental fields

Fields	Symmetries	SO(3)	Sources
$\mathcal{A}_{\alpha\beta\chi}$	StrongGenSet[{}, GenSet[]]	$\frac{1}{2}\eta_{\alpha\chi}\,{}^{\#1}_{1^-}\mathcal{A}_\beta + \frac{1}{2}\eta_{\alpha\beta}\,{}^{\#1}_{1^-}\mathcal{A}_\chi + \frac{4}{3}\,{}^{\#1}_{2^+}\mathcal{A}_{\beta\chi\alpha} + \frac{1}{2}\,{}^{\#2}_{2^+}\mathcal{A}_{\alpha\beta\chi} + \frac{1}{2}\,{}^{\#2}_{2^+}\mathcal{A}_{\alpha\chi\beta} + {}^{\#1}_{3^-}\mathcal{A}_{\alpha\beta\chi} + \frac{1}{3}\eta_{\beta\chi}\,{}^{\#6}_{1^-}\mathcal{A}_\alpha - \frac{1}{6}\eta_{\alpha\chi}\,{}^{\#6}_{1^-}\mathcal{A}_\beta - \frac{1}{6}\eta_{\alpha\beta}\,{}^{\#6}_{1^-}\mathcal{A}_\chi + \frac{1}{15}\eta_{\beta\chi}\,{}^{\#4}_{1^-}\mathcal{A}_\alpha + \frac{1}{15}\eta_{\alpha\chi}\,{}^{\#4}_{1^-}\mathcal{A}_\beta + \frac{1}{15}\eta_{\alpha\beta}\,{}^{\#4}_{1^-}\mathcal{A}_\chi +$ $\frac{1^+}{1}\mathcal{A}_{\beta\chi}\,n_\alpha + \frac{1}{9}\eta_{\beta\chi}\,{}^{\#3}_{0^+}\mathcal{A}\,n_\alpha + \frac{1}{3}\,{}^{\#2}_{2^+}\mathcal{A}_{\beta\chi}\,n_\alpha + \frac{2}{3}\,{}^{\#3}_{2^+}\mathcal{A}_{\beta\chi}\,n_\alpha + \frac{2}{9}\eta_{\beta\chi}\,{}^{\#4}_{0^+}\mathcal{A}\,n_\alpha + \frac{1}{3}\eta_{\alpha\chi}\,{}^{\#3}_{0^+}\mathcal{A}\,n_\beta - {}^{\#1}_{1^+}\mathcal{A}_{\alpha\chi}\,n_\beta + \frac{1}{2}\,{}^{\#1}_{2^+}\mathcal{A}_{\alpha\chi}\,n_\beta + \frac{1}{9}\eta_{\alpha\chi}\,{}^{\#3}_{0^+}\mathcal{A}\,n_\beta - \frac{1}{2}\,{}^{\#3}_{1^+}\mathcal{A}_{\alpha\chi}\,n_\beta + \frac{1}{3}\,{}^{\#2}_{2^+}\mathcal{A}_{\alpha\chi}\,n_\beta -$ $\frac{1}{3}\,{}^{\#3}_{2^+}\mathcal{A}_{\alpha\chi}\,n_\beta - \frac{1}{9}\eta_{\alpha\chi}\,{}^{\#4}_{0^+}\mathcal{A}\,n_\beta - \frac{1}{2}\,{}^{\#1}_{1^-}\mathcal{A}_\chi\,n_\alpha\,n_\beta - {}^{\#2}_{1^-}\mathcal{A}_\chi\,n_\alpha\,n_\beta + \frac{1}{6}\,{}^{\#6}_{1^-}\mathcal{A}_\chi\,n_\alpha\,n_\beta - \frac{1}{15}\,{}^{\#4}_{1^-}\mathcal{A}_\chi\,n_\alpha\,n_\beta - \frac{1}{3}\,{}^{\#5}_{1^-}\mathcal{A}_\chi\,n_\alpha\,n_\beta + \frac{1}{3}\,{}^{\#3}_{1^-}\mathcal{A}_\chi\,n_\alpha\,n_\beta - \frac{1}{3}\eta_{\alpha\beta}\,{}^{\#1}_{0^+}\mathcal{A}\,n_\chi + {}^{\#1}_{1^+}\mathcal{A}_{\alpha\beta}\,n_\chi -$ $\frac{1}{2}\,{}^{\#1}_{2^+}\mathcal{A}_{\alpha\beta}\,n_\chi + \frac{1}{9}\eta_{\alpha\beta}\,{}^{\#3}_{0^+}\mathcal{A}\,n_\chi - \frac{1}{2}\,{}^{\#3}_{1^+}\mathcal{A}_{\alpha\beta}\,n_\chi + \frac{1}{3}\,{}^{\#2}_{2^+}\mathcal{A}_{\alpha\beta}\,n_\chi - \frac{1}{3}\,{}^{\#3}_{2^+}\mathcal{A}_{\alpha\beta}\,n_\chi - \frac{1}{9}\eta_{\alpha\beta}\,{}^{\#4}_{0^+}\mathcal{A}\,n_\chi + \frac{1}{2}\,{}^{\#1}_{1^-}\mathcal{A}_\beta\,n_\alpha\,n_\chi + {}^{\#2}_{1^-}\mathcal{A}_\beta\,n_\alpha\,n_\chi + \frac{1}{6}\,{}^{\#6}_{1^-}\mathcal{A}_\beta\,n_\alpha\,n_\chi - \frac{1}{15}\,{}^{\#4}_{1^-}\mathcal{A}_\beta\,n_\alpha\,n_\chi -$ $\frac{1}{3}\,{}^{\#5}_{1^-}\mathcal{A}_\beta\,n_\alpha\,n_\chi + \frac{1}{3}\,{}^{\#3}_{1^-}\mathcal{A}_\beta\,n_\alpha\,n_\chi - \frac{1}{3}\,{}^{\#6}_{1^-}\mathcal{A}_\alpha\,n_\beta\,n_\chi + \frac{2}{3}\,{}^{\#5}_{1^-}\mathcal{A}_\alpha\,n_\beta\,n_\chi + \frac{1}{3}\,{}^{\#3}_{1^-}\mathcal{A}_\alpha\,n_\beta\,n_\chi - \frac{1}{3}\,{}^{\#3}_{0^+}\mathcal{A}\,n_\alpha\,n_\beta\,n_\chi + {}^{\#2}_{0^+}\mathcal{A}\,n_\alpha\,n_\beta\,n_\chi - \frac{1}{6}\epsilon\eta_{\alpha\beta\chi\delta}\,{}^{\#1}_{0^-}\mathcal{A}\,n^\delta$	$\Delta_{\alpha\beta\chi}$

SO(3) irreps

SO(3)	Symmetries	Expansion	Sources
${}^{\#1}_{0^+}\mathcal{A}$	StrongGenSet[{}, GenSet[]] —	$\frac{1}{2}\mathcal{A}^{\alpha\ \beta}_{\ \alpha}\,n_\beta + \frac{1}{2}\mathcal{A}^{\alpha\beta}_{\ \ \alpha}\,n_\beta$	${}^{\#1}_{0^+}\Delta$
${}^{\#2}_{0^+}\mathcal{A}$	StrongGenSet[{},GenSet[]]	$\mathcal{A}^{\alpha\beta\chi}\,n_\alpha\,n_\beta\,n_\chi$	${}^{\#2}_{0^+}\Delta$
${}^{\#3}_{0^+}\mathcal{A}$	StrongGenSet[{},GenSet[]]	$\mathcal{A}^{\alpha\beta}_{\ \ \beta}\,n_\alpha + \mathcal{A}^{\alpha\ \beta}_{\ \alpha}\,n_\beta + \mathcal{A}^{\alpha\beta}_{\ \ \alpha}\,n_\beta - 3\,\mathcal{A}^{\alpha\beta\chi}\,n_\alpha\,n_\beta\,n_\chi$	${}^{\#3}_{0^+}\Delta$
${}^{\#4}_{0^+}\mathcal{A}$	StrongGenSet[{},GenSet[]]	$\mathcal{A}^{\alpha\beta}_{\ \ \beta}\,n_\alpha - \frac{1}{2}\mathcal{A}^{\alpha\ \beta}_{\ \alpha}\,n_\beta - \frac{1}{2}\mathcal{A}^{\alpha\beta}_{\ \ \alpha}\,n_\beta$	${}^{\#4}_{0^+}\Delta$
${}^{\#1}_{0^-}\mathcal{A}$	StrongGenSet[{},GenSet[]]	$\epsilon\eta_{\alpha\beta\chi\delta}\,\mathcal{A}^{\alpha\beta\chi}\,n^\delta$	${}^{\#1}_{0^-}\Delta$
${}^{\#1}_{1^+}\mathcal{A}_{\alpha\beta}$	StrongGenSet[{1, 2}, GenSet[-(1,2)]]	$\frac{1}{4}\mathcal{A}_{\alpha\beta}^{\ \ \chi}\,n_\chi - \frac{1}{4}\mathcal{A}_{\alpha\ \beta}^{\ \chi}\,n_\chi - \frac{1}{4}\mathcal{A}_{\beta\alpha}^{\ \ \chi}\,n_\chi + \frac{1}{4}\mathcal{A}_{\beta\ \alpha}^{\ \chi}\,n_\chi - \frac{1}{4}\mathcal{A}^{\ \chi}_{\beta\ \ \alpha}\,n_\chi\,n_\delta + \frac{1}{4}\mathcal{A}^{\chi\delta}_{\ \ \beta}\,n_\alpha\,n_\chi\,n_\delta + \frac{1}{4}\mathcal{A}^{\chi\ \delta}_{\ \alpha}\,n_\beta\,n_\chi\,n_\delta - \frac{1}{4}\mathcal{A}^{\chi\delta}_{\ \ \alpha}\,n_\beta\,n_\chi\,n_\delta$	${}^{\#1}_{1^+}\Delta_{\alpha\beta}$
${}^{\#2}_{1^+}\mathcal{A}_{\alpha\beta}$	StrongGenSet[{1, 2}, GenSet[-(1,2)]]	$\frac{1}{2}\mathcal{A}^{\chi}_{\ \alpha\beta}\,n_\chi - \frac{1}{2}\mathcal{A}^{\chi}_{\ \beta\alpha}\,n_\chi + \frac{1}{2}\mathcal{A}^{\chi\ \delta}_{\ \beta}\,n_\alpha\,n_\chi\,n_\delta - \frac{1}{2}\mathcal{A}^{\chi\delta}_{\ \ \beta}\,n_\alpha\,n_\chi\,n_\delta - \frac{1}{2}\mathcal{A}^{\chi\ \delta}_{\ \alpha}\,n_\beta\,n_\chi\,n_\delta + \frac{1}{2}\mathcal{A}^{\chi\delta}_{\ \ \alpha}\,n_\beta\,n_\chi\,n_\delta$	${}^{\#2}_{1^+}\Delta_{\alpha\beta}$
${}^{\#3}_{1^+}\mathcal{A}_{\alpha\beta}$	StrongGenSet[{1, 2}, GenSet[-(1,2)]]	$-\frac{1}{2}\mathcal{A}_{\alpha\beta}^{\ \ \chi}\,n_\chi - \frac{1}{2}\mathcal{A}_{\alpha\ \beta}^{\ \chi}\,n_\chi + \frac{1}{2}\mathcal{A}_{\beta\alpha}^{\ \ \chi}\,n_\chi + \frac{1}{2}\mathcal{A}_{\beta\ \alpha}^{\ \chi}\,n_\chi - \mathcal{A}^{\chi\delta}_{\ \ \beta}\,n_\alpha\,n_\chi\,n_\delta + \frac{1}{2}\mathcal{A}^{\chi\ \delta}_{\ \beta}\,n_\alpha\,n_\chi\,n_\delta + \frac{1}{2}\mathcal{A}^{\chi\delta}_{\ \ \beta}\,n_\alpha\,n_\chi\,n_\delta + \mathcal{A}^{\chi\ \delta}_{\ \alpha}\,n_\beta\,n_\chi\,n_\delta - \frac{1}{2}\mathcal{A}^{\chi\ \delta}_{\ \alpha}\,n_\beta\,n_\chi\,n_\delta - \frac{1}{2}\mathcal{A}^{\chi\delta}_{\ \ \alpha}\,n_\beta\,n_\chi\,n_\delta$	${}^{\#3}_{1^+}\Delta_{\alpha\beta}$
${}^{\#1}_{1^-}\mathcal{A}_\alpha$	StrongGenSet[{}, GenSet[]] —	$\frac{1}{2}\mathcal{A}^\beta_{\ \alpha\beta} + \frac{1}{2}\mathcal{A}^\beta_{\ \beta\alpha} - \frac{1}{2}\mathcal{A}^\beta_{\ \beta}\,n_\alpha\,n_\chi + \frac{1}{2}\mathcal{A}^{\beta\chi}_{\ \ \beta}\,n_\alpha\,n_\chi + \frac{1}{2}\mathcal{A}^{\beta\ \chi}_{\ \alpha}\,n_\beta\,n_\chi - \frac{1}{2}\mathcal{A}^{\beta\chi}_{\ \ \alpha}\,n_\beta\,n_\chi$	${}^{\#1}_{1^-}\Delta_\alpha$
${}^{\#2}_{1^-}\mathcal{A}_\alpha$	StrongGenSet[{},GenSet[]]	$\frac{1}{2}\mathcal{A}^{\beta\ \chi}_{\ \alpha}\,n_\beta\,n_\chi - \frac{1}{2}\mathcal{A}^{\beta\chi}_{\ \ \alpha}\,n_\beta\,n_\chi$	${}^{\#2}_{1^-}\Delta_\alpha$
${}^{\#3}_{1^-}\mathcal{A}_\alpha$	StrongGenSet[{},GenSet[]]	$\mathcal{A}_\alpha^{\ \beta\chi}\,n_\beta\,n_\chi + \mathcal{A}^{\beta\ \chi}_{\ \alpha}\,n_\beta\,n_\chi + \mathcal{A}^{\beta\chi}_{\ \ \alpha}\,n_\beta\,n_\chi - 3\,\mathcal{A}^{\beta\chi\delta}\,n_\alpha\,n_\beta\,n_\chi\,n_\delta$	${}^{\#3}_{1^-}\Delta_\alpha$
${}^{\#4}_{1^-}\mathcal{A}_\alpha$	StrongGenSet[{},GenSet[]]	$\mathcal{A}_{\alpha\ \beta}^{\ \beta} + \mathcal{A}^\beta_{\ \alpha\beta} + \mathcal{A}^\beta_{\ \beta\alpha} - \mathcal{A}^{\beta\chi}_{\ \ \chi}\,n_\alpha\,n_\beta - \mathcal{A}^{\beta\ \chi}_{\ \beta}\,n_\alpha\,n_\chi - \mathcal{A}^{\beta\chi}_{\ \ \beta}\,n_\alpha\,n_\chi - \mathcal{A}^{\beta\chi}_{\ \ \alpha}\,n_\beta\,n_\chi - \mathcal{A}^{\beta\ \chi}_{\ \alpha}\,n_\beta\,n_\chi - \mathcal{A}^{\beta\chi}_{\ \ \alpha}\,n_\beta\,n_\chi + 3\,\mathcal{A}^{\beta\chi\delta}\,n_\alpha\,n_\beta\,n_\chi\,n_\delta$	${}^{\#4}_{1^-}\Delta_\alpha$
${}^{\#5}_{1^-}\mathcal{A}_\alpha$	StrongGenSet[{},GenSet[]]	$\mathcal{A}_\alpha^{\ \beta\chi}\,n_\beta\,n_\chi - \frac{1}{2}\mathcal{A}^{\beta\ \chi}_{\ \alpha}\,n_\beta\,n_\chi - \frac{1}{2}\mathcal{A}^{\beta\chi}_{\ \ \alpha}\,n_\beta\,n_\chi$	${}^{\#5}_{1^-}\Delta_\alpha$
${}^{\#6}_{1^-}\mathcal{A}_\alpha$	StrongGenSet[{},GenSet[]]	$\mathcal{A}_{\alpha\ \beta}^{\ \beta} - \frac{1}{2}\mathcal{A}^\beta_{\ \alpha\beta} - \frac{1}{2}\mathcal{A}^\beta_{\ \beta\alpha} - \mathcal{A}^{\beta\chi}_{\ \ \chi}\,n_\alpha\,n_\beta + \frac{1}{2}\mathcal{A}^{\beta\ \chi}_{\ \beta}\,n_\alpha\,n_\chi + \frac{1}{2}\mathcal{A}^{\beta\chi}_{\ \ \beta}\,n_\alpha\,n_\chi - \mathcal{A}^{\beta\chi}_{\ \ \alpha}\,n_\beta\,n_\chi + \frac{1}{2}\mathcal{A}^{\beta\ \chi}_{\ \alpha}\,n_\beta\,n_\chi + \frac{1}{2}\mathcal{A}^{\beta\chi}_{\ \ \alpha}\,n_\beta\,n_\chi$	${}^{\#6}_{1^-}\Delta_\alpha$
${}^{\#1}_{2^+}\mathcal{A}_{\alpha\beta}$	StrongGenSet[{1, 2}, GenSet[(1,2)]] —	$\frac{1}{4}\mathcal{A}_{\alpha\beta}^{\ \ \chi}\,n_\chi + \frac{1}{4}\mathcal{A}_{\alpha\ \beta}^{\ \chi}\,n_\chi - \frac{1}{4}\mathcal{A}_{\beta\alpha}^{\ \ \chi}\,n_\chi + \frac{1}{4}\mathcal{A}_{\beta\ \alpha}^{\ \chi}\,n_\chi + \frac{1}{6}\eta_{\alpha\beta}\mathcal{A}^{\chi}_{\ \ \chi}\,n_\delta - \frac{1}{6}\eta_{\alpha\beta}\mathcal{A}^{\chi\delta}_{\ \ \chi}\,n_\delta -$ $\frac{1}{6}\mathcal{A}^{\chi\ \delta}_{\ \chi}\,n_\alpha\,n_\beta\,n_\delta + \frac{1}{6}\mathcal{A}^{\chi\delta}_{\ \ \chi}\,n_\alpha\,n_\beta\,n_\delta + \frac{1}{4}\mathcal{A}^{\chi\ \delta}_{\ \beta}\,n_\alpha\,n_\chi\,n_\delta - \frac{1}{4}\mathcal{A}^{\chi\delta}_{\ \ \beta}\,n_\alpha\,n_\chi\,n_\delta + \frac{1}{4}\mathcal{A}^{\chi\ \delta}_{\ \alpha}\,n_\beta\,n_\chi\,n_\delta - \frac{1}{4}\mathcal{A}^{\chi\delta}_{\ \ \alpha}\,n_\beta\,n_\chi\,n_\delta$	${}^{\#1}_{2^+}\Delta_{\alpha\beta}$
${}^{\#2}_{2^+}\mathcal{A}_{\alpha\beta}$	StrongGenSet[{1,2},GenSet[(1,2)]]	$\frac{1}{2}\mathcal{A}_{\alpha\beta}^{\ \ \chi}\,n_\chi + \frac{1}{2}\mathcal{A}_{\alpha\ \beta}^{\ \chi}\,n_\chi + \frac{1}{2}\mathcal{A}_{\beta\alpha}^{\ \ \chi}\,n_\chi + \frac{1}{2}\mathcal{A}_{\beta\ \alpha}^{\ \chi}\,n_\chi + \frac{1}{2}\mathcal{A}^{\chi}_{\ \alpha\beta}\,n_\chi + \frac{1}{2}\mathcal{A}^{\chi}_{\ \beta\alpha}\,n_\chi - \frac{1}{3}\eta_{\alpha\beta}\mathcal{A}^{\chi\delta}_{\ \ \delta}\,n_\chi + \frac{1}{3}\mathcal{A}^{\chi\delta}_{\ \ \delta}\,n_\alpha\,n_\beta\,n_\chi - \frac{1}{3}\eta_{\alpha\beta}\mathcal{A}^{\chi\ \delta}_{\ \chi}\,n_\delta - \frac{1}{3}\eta_{\alpha\beta}\mathcal{A}^{\chi\delta}_{\ \ \chi}\,n_\delta + \frac{1}{3}\mathcal{A}^{\chi\ \delta}_{\ \chi}\,n_\alpha\,n_\beta\,n_\delta +$ $\frac{1}{3}\mathcal{A}^{\chi\delta}_{\ \ \chi}\,n_\alpha\,n_\beta\,n_\delta - \mathcal{A}^{\chi\ \delta}_{\ \beta}\,n_\alpha\,n_\chi\,n_\delta - \mathcal{A}^{\chi\delta}_{\ \ \beta}\,n_\alpha\,n_\chi\,n_\delta - \mathcal{A}^{\chi\ \delta}_{\ \alpha}\,n_\beta\,n_\chi\,n_\delta - \mathcal{A}^{\chi\delta}_{\ \ \alpha}\,n_\beta\,n_\chi\,n_\delta + \eta_{\alpha\beta}\mathcal{A}^{\chi\delta\epsilon}\,n_\chi\,n_\delta\,n_\epsilon + 2\,\mathcal{A}^{\chi\delta\epsilon}\,n_\alpha\,n_\beta\,n_\chi\,n_\delta\,n_\epsilon$	${}^{\#2}_{2^+}\Delta_{\alpha\beta}$
${}^{\#3}_{2^+}\mathcal{A}_{\alpha\beta}$	StrongGenSet[{1, 2}, GenSet[(1,2)]] —	$\frac{1}{4}\mathcal{A}_{\alpha\beta}^{\ \ \chi}\,n_\chi - \frac{1}{4}\mathcal{A}_{\alpha\ \beta}^{\ \chi}\,n_\chi - \frac{1}{4}\mathcal{A}_{\beta\alpha}^{\ \ \chi}\,n_\chi - \frac{1}{4}\mathcal{A}_{\beta\ \alpha}^{\ \chi}\,n_\chi + \frac{1}{2}\mathcal{A}^{\chi}_{\ \alpha\beta}\,n_\chi + \frac{1}{2}\mathcal{A}^{\chi}_{\ \beta\alpha}\,n_\chi - \frac{1}{3}\eta_{\alpha\beta}\mathcal{A}^{\chi\delta}_{\ \ \delta}\,n_\chi + \frac{1}{3}\mathcal{A}^{\chi\delta}_{\ \ \delta}\,n_\alpha\,n_\beta\,n_\chi + \frac{1}{6}\eta_{\alpha\beta}\mathcal{A}^{\chi\ \delta}_{\ \chi}\,n_\delta + \frac{1}{6}\eta_{\alpha\beta}\mathcal{A}^{\chi\delta}_{\ \ \chi}\,n_\delta -$ $\frac{1}{6}\mathcal{A}^{\chi\ \delta}_{\ \chi}\,n_\alpha\,n_\beta\,n_\delta - \frac{1}{6}\mathcal{A}^{\chi\delta}_{\ \ \chi}\,n_\alpha\,n_\beta\,n_\delta + \frac{1}{2}\mathcal{A}^{\chi\delta}_{\ \ \beta}\,n_\alpha\,n_\chi\,n_\delta - \frac{1}{4}\mathcal{A}^{\chi\ \delta}_{\ \beta}\,n_\alpha\,n_\chi\,n_\delta - \frac{1}{4}\mathcal{A}^{\chi\delta}_{\ \ \beta}\,n_\alpha\,n_\chi\,n_\delta + \frac{1}{2}\mathcal{A}_{\alpha}^{\ \chi\delta}\,n_\beta\,n_\chi\,n_\delta - \frac{1}{4}\mathcal{A}^{\chi\ \delta}_{\ \alpha}\,n_\beta\,n_\chi\,n_\delta - \frac{1}{4}\mathcal{A}^{\chi\delta}_{\ \ \alpha}\,n_\beta\,n_\chi\,n_\delta$	${}^{\#3}_{2^+}\Delta_{\alpha\beta}$
${}^{\#1}_{2^-}\mathcal{A}_{\alpha\beta\chi}$	StrongGenSet[{1, 2}, GenSet[-(1,2)]]	$-\frac{1}{8}\mathcal{A}_{\alpha\beta\chi} + \frac{1}{8}\mathcal{A}_{\alpha\chi\beta} + \frac{1}{8}\mathcal{A}_{\beta\alpha\chi} - \frac{1}{8}\mathcal{A}_{\beta\chi\alpha} + \frac{1}{4}\mathcal{A}_{\chi\alpha\beta} - \frac{1}{4}\mathcal{A}_{\chi\beta\alpha} - \frac{3}{16}\eta_{\beta\chi}\mathcal{A}^\delta_{\ \alpha\delta} + \frac{3}{16}\eta_{\alpha\chi}\mathcal{A}^\delta_{\ \beta\delta} + \frac{3}{16}\eta_{\beta\chi}\mathcal{A}^\delta_{\ \delta\alpha} - \frac{3}{16}\eta_{\alpha\chi}\mathcal{A}^\delta_{\ \delta\beta} - \frac{3}{16}\mathcal{A}^\delta_{\ \beta\delta}\,n_\alpha\,n_\chi +$ $\frac{3}{16}\mathcal{A}^\delta_{\ \delta\beta}\,n_\alpha\,n_\chi + \frac{3}{16}\mathcal{A}^\delta_{\ \alpha\delta}\,n_\beta\,n_\chi - \frac{3}{16}\mathcal{A}^\delta_{\ \delta\alpha}\,n_\beta\,n_\chi + \frac{1}{8}\mathcal{A}_{\beta\chi}^{\ \ \delta}\,n_\alpha\,n_\delta - \frac{1}{8}\mathcal{A}_{\beta\ \chi}^{\ \delta}\,n_\alpha\,n_\delta + \frac{1}{4}\mathcal{A}_{\chi\beta}^{\ \ \delta}\,n_\alpha\,n_\delta - \frac{1}{4}\mathcal{A}_{\chi\ \beta}^{\ \delta}\,n_\alpha\,n_\delta + \frac{1}{8}\mathcal{A}^\delta_{\ \beta\chi}\,n_\alpha\,n_\delta - \frac{1}{8}\mathcal{A}^\delta_{\ \chi\beta}\,n_\alpha\,n_\delta -$ $\frac{1}{8}\mathcal{A}_{\alpha\chi}^{\ \ \delta}\,n_\beta\,n_\delta + \frac{1}{8}\mathcal{A}_{\alpha\ \chi}^{\ \delta}\,n_\beta\,n_\delta - \frac{1}{4}\mathcal{A}_{\chi\alpha}^{\ \ \delta}\,n_\beta\,n_\delta + \frac{1}{4}\mathcal{A}_{\chi\ \alpha}^{\ \delta}\,n_\beta\,n_\delta - \frac{1}{8}\mathcal{A}^\delta_{\ \alpha\chi}\,n_\beta\,n_\delta + \frac{1}{8}\mathcal{A}^\delta_{\ \chi\alpha}\,n_\beta\,n_\delta + \frac{1}{8}\mathcal{A}_{\alpha\beta}^{\ \ \delta}\,n_\chi\,n_\delta - \frac{1}{8}\mathcal{A}_{\alpha\ \beta}^{\ \delta}\,n_\chi\,n_\delta - \frac{1}{8}\mathcal{A}_{\beta\alpha}^{\ \ \delta}\,n_\chi\,n_\delta +$ $\frac{1}{8}\mathcal{A}^\delta_{\ \beta\alpha}\,n_\chi\,n_\delta - \frac{1}{4}\mathcal{A}^\delta_{\ \alpha\beta}\,n_\chi\,n_\delta + \frac{1}{4}\mathcal{A}^\delta_{\ \beta\alpha}\,n_\chi\,n_\delta - \frac{3}{16}\eta_{\beta\chi}\mathcal{A}^{\delta\epsilon}_{\ \ \delta}\,n_\alpha\,n_\epsilon + \frac{3}{16}\eta_{\beta\chi}\mathcal{A}^{\delta\epsilon}_{\ \ \delta}\,n_\alpha\,n_\epsilon + \frac{3}{16}\eta_{\alpha\chi}\mathcal{A}^{\delta\epsilon}_{\ \ \delta}\,n_\beta\,n_\epsilon - \frac{3}{16}\eta_{\alpha\chi}\mathcal{A}^{\delta\epsilon}_{\ \ \delta}\,n_\beta\,n_\epsilon -$ $\frac{3}{16}\eta_{\alpha\chi}\mathcal{A}^{\delta\ \epsilon}_{\ \delta}\,n_\beta\,n_\epsilon - \frac{3}{16}\eta_{\beta\chi}\mathcal{A}^{\delta\epsilon}_{\ \ \alpha}\,n_\delta\,n_\epsilon + \frac{3}{16}\eta_{\alpha\chi}\mathcal{A}^{\delta\epsilon}_{\ \ \beta}\,n_\delta\,n_\epsilon - \frac{3}{16}\mathcal{A}^{\delta\ \epsilon}_{\ \beta}\,n_\alpha\,n_\chi\,n_\delta\,n_\epsilon + \frac{3}{16}\mathcal{A}^{\delta\epsilon}_{\ \ \beta}\,n_\alpha\,n_\chi\,n_\delta\,n_\epsilon + \frac{3}{16}\mathcal{A}^{\delta\ \epsilon}_{\ \alpha}\,n_\beta\,n_\chi\,n_\delta\,n_\epsilon - \frac{3}{16}\mathcal{A}^{\delta\epsilon}_{\ \ \alpha}\,n_\beta\,n_\chi\,n_\delta\,n_\epsilon$	${}^{\#1}_{2^-}\Delta_{\alpha\beta\chi}$
${}^{\#2}_{2^-}\mathcal{A}_{\alpha\beta\chi}$	StrongGenSet[{1, 2}, GenSet[-(1,2)]]	$\frac{1}{3}\mathcal{A}_{\alpha\beta\chi} + \frac{1}{3}\mathcal{A}_{\alpha\chi\beta} - \frac{1}{3}\eta_{\beta\chi}\mathcal{A}_{\alpha\ \delta}^{\ \delta} - \frac{1}{3}\mathcal{A}_{\beta\alpha\chi} - \frac{1}{3}\mathcal{A}_{\beta\chi\alpha} + \frac{1}{3}\eta_{\alpha\chi}\mathcal{A}_{\beta\ \delta}^{\ \delta} + \frac{1}{6}\eta_{\beta\chi}\mathcal{A}^\delta_{\ \alpha\delta} - \frac{1}{6}\eta_{\alpha\chi}\mathcal{A}^\delta_{\ \beta\delta} + \frac{1}{6}\eta_{\beta\chi}\mathcal{A}^\delta_{\ \delta\alpha} - \frac{1}{6}\eta_{\alpha\chi}\mathcal{A}^\delta_{\ \delta\beta} - \frac{1}{3}\mathcal{A}^\delta_{\ \beta\delta}\,n_\alpha\,n_\chi + \frac{1}{6}\mathcal{A}^\delta_{\ \delta\beta}\,n_\alpha\,n_\chi +$ $\frac{1}{6}\mathcal{A}^\delta_{\ \delta\beta}\,n_\alpha\,n_\chi + \frac{1}{3}\mathcal{A}_{\alpha\ \delta}^{\ \delta}\,n_\beta\,n_\chi - \frac{1}{6}\mathcal{A}^\delta_{\ \alpha\delta}\,n_\beta\,n_\chi - \frac{1}{6}\mathcal{A}^\delta_{\ \delta\alpha}\,n_\beta\,n_\chi + \frac{1}{3}\mathcal{A}_{\beta\chi}^{\ \ \delta}\,n_\alpha\,n_\delta + \frac{1}{3}\mathcal{A}_{\beta\ \chi}^{\ \delta}\,n_\alpha\,n_\delta - \frac{1}{3}\mathcal{A}^\delta_{\ \beta\chi}\,n_\alpha\,n_\delta - \frac{1}{3}\mathcal{A}^\delta_{\ \chi\beta}\,n_\alpha\,n_\delta + \frac{1}{3}\eta_{\beta\chi}\mathcal{A}^{\delta}_{\ \ \epsilon}\,n_\alpha\,n_\delta -$ $\frac{1}{3}\mathcal{A}_{\alpha\ \chi}^{\ \delta}\,n_\beta\,n_\delta + \frac{1}{3}\mathcal{A}^\delta_{\ \alpha\chi}\,n_\beta\,n_\delta + \frac{1}{3}\mathcal{A}^\delta_{\ \chi\alpha}\,n_\beta\,n_\delta - \frac{1}{3}\eta_{\alpha\chi}\mathcal{A}^{\delta\epsilon}_{\ \ \epsilon}\,n_\beta\,n_\delta - \frac{1}{3}\mathcal{A}_{\alpha\beta}^{\ \ \delta}\,n_\chi\,n_\delta - \frac{1}{3}\mathcal{A}_{\alpha\ \beta}^{\ \delta}\,n_\chi\,n_\delta + \frac{1}{3}\mathcal{A}_{\beta\alpha}^{\ \ \delta}\,n_\chi\,n_\delta + \frac{1}{3}\mathcal{A}_{\beta\ \alpha}^{\ \delta}\,n_\chi\,n_\delta - \frac{1}{6}\eta_{\beta\chi}\mathcal{A}^{\delta\ \epsilon}_{\ \delta}\,n_\alpha\,n_\epsilon -$ $\frac{1}{6}\eta_{\beta\chi}\mathcal{A}^{\delta\epsilon}_{\ \ \delta}\,n_\alpha\,n_\epsilon + \frac{1}{6}\eta_{\alpha\chi}\mathcal{A}^{\delta\ \epsilon}_{\ \delta}\,n_\beta\,n_\epsilon + \frac{1}{6}\eta_{\alpha\chi}\mathcal{A}^{\delta\epsilon}_{\ \ \delta}\,n_\beta\,n_\epsilon + \frac{1}{3}\eta_{\beta\chi}\mathcal{A}_\alpha^{\ \delta\epsilon}\,n_\delta\,n_\epsilon - \frac{1}{3}\eta_{\alpha\chi}\mathcal{A}_\beta^{\ \delta\epsilon}\,n_\delta\,n_\epsilon - \frac{1}{6}\eta_{\beta\chi}\mathcal{A}^{\delta\ \epsilon}_{\ \alpha}\,n_\delta\,n_\epsilon + \frac{1}{6}\eta_{\alpha\chi}\mathcal{A}^{\delta\epsilon}_{\ \ \beta}\,n_\delta\,n_\epsilon - \frac{1}{6}\eta_{\beta\chi}\mathcal{A}^{\delta\epsilon}_{\ \ \alpha}\,n_\delta\,n_\epsilon +$ $\frac{1}{6}\eta_{\alpha\chi}\mathcal{A}^{\delta\epsilon}_{\ \ \beta}\,n_\delta\,n_\epsilon - \frac{1}{3}\mathcal{A}^{\delta\ \epsilon}_{\ \beta}\,n_\alpha\,n_\chi\,n_\delta\,n_\epsilon + \frac{1}{6}\mathcal{A}^{\delta\ \epsilon}_{\ \beta}\,n_\alpha\,n_\chi\,n_\delta\,n_\epsilon + \frac{1}{6}\mathcal{A}^{\delta\epsilon}_{\ \ \beta}\,n_\alpha\,n_\chi\,n_\delta\,n_\epsilon + \frac{1}{3}\mathcal{A}_\alpha^{\ \delta\epsilon}\,n_\beta\,n_\chi\,n_\delta\,n_\epsilon - \frac{1}{6}\mathcal{A}^{\delta\ \epsilon}_{\ \alpha}\,n_\beta\,n_\chi\,n_\delta\,n_\epsilon - \frac{1}{6}\mathcal{A}^{\delta\epsilon}_{\ \ \alpha}\,n_\beta\,n_\chi\,n_\delta\,n_\epsilon$	${}^{\#2}_{2^-}\Delta_{\alpha\beta\chi}$
${}^{\#1}_{3^-}\mathcal{A}_{\alpha\beta\chi}$	StrongGenSet[{1, 2, 3}, GenSet[(1,2), (2,3)]]	$\frac{1}{6}\mathcal{A}_{\alpha\beta\chi} + \frac{1}{6}\mathcal{A}_{\alpha\chi\beta} - \frac{1}{15}\eta_{\beta\chi}\mathcal{A}_{\alpha\ \delta}^{\ \delta} + \frac{1}{6}\mathcal{A}_{\beta\alpha\chi} + \frac{1}{6}\mathcal{A}_{\beta\chi\alpha} - \frac{1}{15}\eta_{\alpha\chi}\mathcal{A}_{\beta\ \delta}^{\ \delta} + \frac{1}{6}\mathcal{A}_{\chi\alpha\beta} + \frac{1}{6}\mathcal{A}_{\chi\beta\alpha} - \frac{1}{15}\eta_{\alpha\beta}\mathcal{A}_{\chi\ \delta}^{\ \delta} - \frac{1}{15}\eta_{\beta\chi}\mathcal{A}^\delta_{\ \alpha\delta} - \frac{1}{15}\eta_{\alpha\chi}\mathcal{A}^\delta_{\ \beta\delta} - \frac{1}{15}\eta_{\alpha\beta}\mathcal{A}^\delta_{\ \chi\delta} - \frac{1}{15}\eta_{\beta\chi}\mathcal{A}^\delta_{\ \delta\alpha} -$ $\frac{1}{15}\eta_{\alpha\chi}\mathcal{A}^\delta_{\ \delta\beta} - \frac{1}{15}\eta_{\alpha\beta}\mathcal{A}^\delta_{\ \delta\chi} + \frac{1}{15}\mathcal{A}^{\ \ \delta}_{\chi\ \delta}\,n_\alpha\,n_\beta + \frac{1}{15}\mathcal{A}^\delta_{\ \chi\delta}\,n_\alpha\,n_\beta + \frac{1}{15}\mathcal{A}^\delta_{\ \delta\chi}\,n_\alpha\,n_\beta + \frac{1}{15}\mathcal{A}^{\ \ \delta}_{\beta\ \delta}\,n_\alpha\,n_\chi + \frac{1}{15}\mathcal{A}^\delta_{\ \beta\delta}\,n_\alpha\,n_\chi + \frac{1}{15}\mathcal{A}^\delta_{\ \delta\beta}\,n_\alpha\,n_\chi + \frac{1}{15}\mathcal{A}_{\alpha\ \delta}^{\ \delta}\,n_\beta\,n_\chi +$ $\frac{1}{15}\mathcal{A}^\delta_{\ \alpha\delta}\,n_\beta\,n_\chi + \frac{1}{15}\mathcal{A}^\delta_{\ \delta\alpha}\,n_\beta\,n_\chi - \frac{1}{6}\mathcal{A}_{\beta\chi}^{\ \ \delta}\,n_\alpha\,n_\delta - \frac{1}{6}\mathcal{A}_{\beta\ \chi}^{\ \delta}\,n_\alpha\,n_\delta - \frac{1}{6}\mathcal{A}_{\chi\beta}^{\ \ \delta}\,n_\alpha\,n_\delta - \frac{1}{6}\mathcal{A}_{\chi\ \beta}^{\ \delta}\,n_\alpha\,n_\delta - \frac{1}{6}\mathcal{A}^\delta_{\ \beta\chi}\,n_\alpha\,n_\delta - \frac{1}{6}\mathcal{A}^\delta_{\ \chi\beta}\,n_\alpha\,n_\delta + \frac{1}{15}\eta_{\beta\chi}\mathcal{A}^{\delta\epsilon}_{\ \ \epsilon}\,n_\alpha\,n_\delta -$ $\frac{1}{6}\mathcal{A}_{\alpha\chi}^{\ \ \delta}\,n_\beta\,n_\delta - \frac{1}{6}\mathcal{A}_{\alpha\ \chi}^{\ \delta}\,n_\beta\,n_\delta - \frac{1}{6}\mathcal{A}_{\chi\alpha}^{\ \ \delta}\,n_\beta\,n_\delta - \frac{1}{6}\mathcal{A}_{\chi\ \alpha}^{\ \delta}\,n_\beta\,n_\delta - \frac{1}{6}\mathcal{A}^\delta_{\ \alpha\chi}\,n_\beta\,n_\delta - \frac{1}{6}\mathcal{A}^\delta_{\ \chi\alpha}\,n_\beta\,n_\delta + \frac{1}{15}\eta_{\alpha\chi}\mathcal{A}^{\delta\epsilon}_{\ \ \epsilon}\,n_\beta\,n_\delta - \frac{1}{6}\mathcal{A}_{\alpha\beta}^{\ \ \delta}\,n_\chi\,n_\delta - \frac{1}{6}\mathcal{A}_{\alpha\ \beta}^{\ \delta}\,n_\chi\,n_\delta - \frac{1}{6}\mathcal{A}_{\beta\alpha}^{\ \ \delta}\,n_\chi\,n_\delta -$ $\frac{1}{6}\mathcal{A}_{\beta\ \alpha}^{\ \delta}\,n_\chi\,n_\delta - \frac{1}{6}\mathcal{A}^\delta_{\ \alpha\beta}\,n_\chi\,n_\delta - \frac{1}{6}\mathcal{A}^\delta_{\ \beta\alpha}\,n_\chi\,n_\delta + \frac{1}{15}\eta_{\alpha\beta}\mathcal{A}^{\delta\epsilon}_{\ \ \epsilon}\,n_\chi\,n_\delta - \frac{1}{15}\mathcal{A}^{\delta\epsilon}_{\ \ \epsilon}\,n_\alpha\,n_\beta\,n_\chi\,n_\delta + \frac{1}{15}\eta_{\beta\chi}\mathcal{A}^{\delta\ \epsilon}_{\ \delta}\,n_\alpha\,n_\epsilon + \frac{1}{15}\eta_{\beta\chi}\mathcal{A}^{\delta\epsilon}_{\ \ \delta}\,n_\alpha\,n_\epsilon + \frac{1}{15}\eta_{\alpha\chi}\mathcal{A}^{\delta\ \epsilon}_{\ \delta}\,n_\beta\,n_\epsilon +$ $\frac{1}{15}\eta_{\alpha\chi}\mathcal{A}^{\delta\epsilon}_{\ \ \delta}\,n_\beta\,n_\epsilon + \frac{1}{15}\eta_{\alpha\beta}\mathcal{A}^{\delta\ \epsilon}_{\ \chi}\,n_\delta\,n_\epsilon + \frac{1}{15}\eta_{\alpha\beta}\mathcal{A}^{\delta\epsilon}_{\ \ \chi}\,n_\delta\,n_\epsilon - \frac{1}{5}\mathcal{A}^{\delta\epsilon}_{\ \ \chi}\,n_\alpha\,n_\beta\,n_\delta\,n_\epsilon - \frac{1}{5}\mathcal{A}^{\delta\epsilon}_{\ \ \chi}\,n_\alpha\,n_\beta\,n_\delta\,n_\epsilon + \frac{1}{15}\eta_{\beta\chi}\mathcal{A}_\alpha^{\ \delta\epsilon}\,n_\delta\,n_\epsilon + \frac{1}{15}\eta_{\alpha\chi}\mathcal{A}_\beta^{\ \delta\epsilon}\,n_\delta\,n_\epsilon +$ $\frac{1}{15}\eta_{\alpha\beta}\mathcal{A}_\chi^{\ \delta\epsilon}\,n_\delta\,n_\epsilon + \frac{1}{15}\eta_{\beta\chi}\mathcal{A}^{\delta\ \epsilon}_{\ \alpha}\,n_\delta\,n_\epsilon + \frac{1}{15}\eta_{\alpha\chi}\mathcal{A}^{\delta\epsilon}_{\ \ \beta}\,n_\delta\,n_\epsilon + \frac{1}{15}\eta_{\alpha\beta}\mathcal{A}^{\delta\epsilon}_{\ \ \chi}\,n_\delta\,n_\epsilon + \frac{4}{15}\mathcal{A}^{\delta\epsilon}_{\ \ \chi}\,n_\alpha\,n_\beta\,n_\delta\,n_\epsilon +$ $\frac{4}{15}\mathcal{A}^{\delta\ \epsilon}_{\ \chi}\,n_\alpha\,n_\beta\,n_\delta\,n_\epsilon + \frac{4}{15}\mathcal{A}^{\delta\epsilon}_{\ \ \chi}\,n_\alpha\,n_\beta\,n_\delta\,n_\epsilon + \frac{4}{15}\mathcal{A}_\beta^{\ \delta\epsilon}\,n_\alpha\,n_\chi\,n_\delta\,n_\epsilon + \frac{4}{15}\mathcal{A}^{\delta\ \epsilon}_{\ \beta}\,n_\alpha\,n_\chi\,n_\delta\,n_\epsilon + \frac{4}{15}\mathcal{A}^{\delta\epsilon}_{\ \ \beta}\,n_\alpha\,n_\chi\,n_\delta\,n_\epsilon + \frac{4}{15}\mathcal{A}^{\delta\epsilon}_{\ \ \beta}\,n_\chi\,n_\delta\,n_\epsilon +$ $\frac{4}{15}\mathcal{A}^{\delta\ \epsilon}_{\ \alpha}\,n_\beta\,n_\chi\,n_\delta\,n_\epsilon + \frac{4}{15}\mathcal{A}^{\delta\epsilon}_{\ \ \alpha}\,n_\beta\,n_\chi\,n_\delta\,n_\epsilon - \frac{1}{5}\mathcal{A}^{\delta\epsilon\phi}\,n_\alpha\,n_\delta\,n_\epsilon\,n_\phi - \frac{1}{5}\mathcal{A}^{\delta\epsilon\phi}\,n_\beta\,n_\delta\,n_\epsilon\,n_\phi - \frac{1}{5}\eta_{\alpha\beta}\mathcal{A}^{\delta\epsilon\phi}\,n_\chi\,n_\delta\,n_\epsilon\,n_\phi - \frac{2}{5}\mathcal{A}^{\delta\epsilon\phi}\,n_\alpha\,n_\beta\,n_\chi\,n_\delta\,n_\epsilon\,n_\phi$	${}^{\#1}_{3^-}\Delta_{\alpha\beta\chi}$