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[]] -	$\frac12\eta_{\alpha\chi}\overset{\#1}{1^{-}}\mathcal{A}_{\beta} + \frac12\eta_{\alpha\beta}\overset{\#1}{1^{-}}\mathcal{A}_{\chi} + \frac43\overset{\#1}{2^{-}}\mathcal{A}_{\beta\chi\alpha} + \frac12\overset{\#2}{2^{-}}\mathcal{A}_{\alpha\beta\chi} + \frac12\overset{\#2}{2^{-}}\mathcal{A}_{\alpha\chi\beta} + \overset{\#1}{3^{-}}\mathcal{A}_{\alpha\beta\chi} + \frac13\eta_{\beta\chi}\overset{\#6}{1^{-}}\mathcal{A}_{\alpha} - \frac16\eta_{\alpha\chi}\overset{\#6}{1^{-}}\mathcal{A}_{\beta} - \frac16\eta_{\alpha\beta}\overset{\#6}{1^{-}}\mathcal{A}_{\chi} + \frac1{15}\eta_{\beta\chi}\overset{\#4}{1^{-}}\mathcal{A}_{\alpha} + \frac1{15}\eta_{\alpha\chi}\overset{\#4}{1^{-}}\mathcal{A}_{\beta} + \frac1{15}\eta_{\alpha\beta}\overset{\#4}{1^{-}}\mathcal{A}_{\chi} +$ $\overset{\#2}{1^{+}}\mathcal{A}_{\beta\chi}n_{\alpha} + \frac19\eta_{\beta\chi}\overset{\#3}{0^{+}}\mathcal{A}\,n_{\alpha} + \frac13\overset{\#2}{2^{+}}\mathcal{A}_{\beta\chi}n_{\alpha} + \frac23\overset{\#3}{2^{+}}\mathcal{A}_{\beta\chi}n_{\alpha} + \frac29\eta_{\beta\chi}\overset{\#4}{0^{+}}\mathcal{A}\,n_{\alpha} + \frac13\eta_{\alpha\chi}\overset{\#1}{0^{+}}\mathcal{A}\,n_{\beta} - \overset{\#1}{1^{+}}\mathcal{A}_{\alpha\chi}n_{\beta} + \overset{\#1}{2^{+}}\mathcal{A}_{\alpha\chi}n_{\beta} + \frac19\eta_{\alpha\chi}\overset{\#3}{0^{+}}\mathcal{A}\,n_{\beta} - \frac12\overset{\#3}{1^{+}}\mathcal{A}_{\alpha\chi}n_{\beta} + \frac13\overset{\#2}{2^{+}}\mathcal{A}_{\alpha\chi}n_{\beta} -$ $\frac13\overset{\#3}{2^{+}}\mathcal{A}_{\alpha\chi}n_{\beta} - \frac19\eta_{\alpha\chi}\overset{\#4}{0^{+}}\mathcal{A}\,n_{\beta} - \frac12\overset{\#1}{1^{-}}\mathcal{A}_{\chi}n_{\alpha}n_{\beta} - \overset{\#2}{1^{-}}\mathcal{A}_{\chi}n_{\alpha}n_{\beta} + \frac16\overset{\#6}{1^{-}}\mathcal{A}_{\chi}n_{\alpha}n_{\beta} - \frac1{15}\overset{\#4}{1^{-}}\mathcal{A}_{\chi}n_{\alpha}n_{\beta} - \frac13\overset{\#5}{1^{-}}\mathcal{A}_{\chi}n_{\alpha}n_{\beta} + \frac13\overset{\#3}{1^{-}}\mathcal{A}_{\chi}n_{\alpha}n_{\beta} - \frac13\eta_{\alpha\beta}\overset{\#1}{0^{+}}\mathcal{A}\,n_{\chi} + \overset{\#1}{1^{+}}\mathcal{A}_{\alpha\beta}n_{\chi} -$ $\overset{\#1}{2^{+}}\mathcal{A}_{\alpha\beta}n_{\chi} + \frac19\eta_{\alpha\beta}\overset{\#3}{0^{+}}\mathcal{A}\,n_{\chi} - \frac12\overset{\#3}{1^{+}}\mathcal{A}_{\alpha\beta}n_{\chi} + \frac13\overset{\#2}{2^{+}}\mathcal{A}_{\alpha\beta}n_{\chi} - \frac13\overset{\#3}{2^{+}}\mathcal{A}_{\alpha\beta}n_{\chi} - \frac19\eta_{\alpha\beta}\overset{\#4}{0^{+}}\mathcal{A}\,n_{\chi} + \frac12\overset{\#1}{1^{-}}\mathcal{A}_{\beta}n_{\alpha}n_{\chi} + \overset{\#2}{1^{-}}\mathcal{A}_{\beta}n_{\alpha}n_{\chi} + \frac16\overset{\#6}{1^{-}}\mathcal{A}_{\beta}n_{\alpha}n_{\chi} - \frac1{15}\overset{\#4}{1^{-}}\mathcal{A}_{\beta}n_{\alpha}n_{\chi} -$ $\frac13\overset{\#5}{1^{-}}\mathcal{A}_{\beta}n_{\alpha}n_{\chi} + \frac13\overset{\#3}{1^{-}}\mathcal{A}_{\beta}n_{\alpha}n_{\chi} - \frac13\overset{\#6}{1^{-}}\mathcal{A}_{\alpha}n_{\beta}n_{\chi} - \frac1{15}\overset{\#4}{1^{-}}\mathcal{A}_{\alpha}n_{\beta}n_{\chi} + \frac23\overset{\#5}{1^{-}}\mathcal{A}_{\alpha}n_{\beta}n_{\chi} + \frac13\overset{\#3}{1^{-}}\mathcal{A}_{\alpha}n_{\beta}n_{\chi} - \frac13\overset{\#3}{0^{+}}\mathcal{A}\,n_{\alpha}n_{\beta}n_{\chi} + \overset{\#2}{0^{+}}\mathcal{A}\,n_{\alpha}n_{\beta}n_{\chi} - \frac16\epsilon\eta_{\alpha\beta\chi\delta}\overset{\#1}{0^{-}}\mathcal{A}\,n^{\delta}$	$\Delta_{\alpha\beta\chi}$

SO(3) irreps

SO(3)	Symmetries	Expansion	Sources
$\overset{\#1}{0^{+}}\mathcal{A}$	StrongGenSet[{}, GenSet[]] -	$\frac12\mathcal{A}^{\alpha}{}_{\alpha}{}^{\beta}n_{\beta} + \frac12\mathcal{A}^{\alpha\beta}{}_{\alpha}n_{\beta}$	$\overset{\#1}{0^{+}}\Delta$
$\overset{\#2}{0^{+}}\mathcal{A}$	StrongGenSet[{},GenSet[]]	$\mathcal{A}^{\alpha\beta\chi}n_{\alpha}n_{\beta}n_{\chi}$	$\overset{\#2}{0^{+}}\Delta$
$\overset{\#3}{0^{+}}\mathcal{A}$	StrongGenSet[{},GenSet[]]	$\mathcal{A}^{\alpha\beta}{}_{\beta}n_{\alpha} + \mathcal{A}^{\alpha}{}_{\alpha}{}^{\beta}n_{\beta} + \mathcal{A}^{\alpha\beta}{}_{\alpha}n_{\beta} - 3\mathcal{A}^{\alpha\beta\chi}n_{\alpha}n_{\beta}n_{\chi}$	$\overset{\#3}{0^{+}}\Delta$
$\overset{\#4}{0^{+}}\mathcal{A}$	StrongGenSet[{},GenSet[]]	$\mathcal{A}^{\alpha\beta}{}_{\beta}n_{\alpha} - \frac12\mathcal{A}^{\alpha}{}_{\alpha}{}^{\beta}n_{\beta} - \frac12\mathcal{A}^{\alpha\beta}{}_{\alpha}n_{\beta}$	$\overset{\#4}{0^{+}}\Delta$
$\overset{\#1}{0^{-}}\mathcal{A}$	StrongGenSet[{},GenSet[]]	$\epsilon\eta_{\alpha\beta\chi\delta}\mathcal{A}^{\alpha\beta\chi}n^{\delta}$	$\overset{\#1}{0^{-}}\Delta$
$\overset{\#1}{1^{+}}\mathcal{A}_{\alpha\beta}$	StrongGenSet[{1, 2}, GenSet[-(1,2)]]	$\frac14\mathcal{A}_{\alpha\beta}{}^{\chi}n_{\chi} - \frac14\mathcal{A}_{\alpha}{}^{\chi}{}_{\beta}n_{\chi} - \frac14\mathcal{A}_{\beta\alpha}{}^{\chi}n_{\chi} + \frac14\mathcal{A}_{\beta}{}^{\chi}{}_{\alpha}n_{\chi} - \frac14\mathcal{A}^{\chi}{}_{\beta}{}^{\delta}n_{\alpha}n_{\chi}n_{\delta} + \frac14\mathcal{A}^{\chi\delta}{}_{\beta}n_{\alpha}n_{\chi}n_{\delta} + \frac14\mathcal{A}^{\chi}{}_{\alpha}{}^{\delta}n_{\beta}n_{\chi}n_{\delta} - \frac14\mathcal{A}^{\chi\delta}{}_{\alpha}n_{\beta}n_{\chi}n_{\delta}$	$\overset{\#1}{1^{+}}\Delta_{\alpha\beta}$
$\overset{\#2}{1^{+}}\mathcal{A}_{\alpha\beta}$	StrongGenSet[{1, 2}, GenSet[-(1,2)]]	$\frac12\mathcal{A}^{\chi}{}_{\alpha\beta}n_{\chi} - \frac12\mathcal{A}^{\chi}{}_{\beta\alpha}n_{\chi} + \frac12\mathcal{A}^{\chi}{}_{\beta}{}^{\delta}n_{\alpha}n_{\chi}n_{\delta} - \frac12\mathcal{A}^{\chi\delta}{}_{\beta}n_{\alpha}n_{\chi}n_{\delta} - \frac12\mathcal{A}^{\chi}{}_{\alpha}{}^{\delta}n_{\beta}n_{\chi}n_{\delta} + \frac12\mathcal{A}^{\chi\delta}{}_{\alpha}n_{\beta}n_{\chi}n_{\delta}$	$\overset{\#2}{1^{+}}\Delta_{\alpha\beta}$
$\overset{\#3}{1^{+}}\mathcal{A}_{\alpha\beta}$	StrongGenSet[{1, 2}, GenSet[-(1,2)]]	$-\frac12\mathcal{A}_{\alpha\beta}{}^{\chi}n_{\chi} - \frac12\mathcal{A}_{\alpha}{}^{\chi}{}_{\beta}n_{\chi} + \frac12\mathcal{A}_{\beta\alpha}{}^{\chi}n_{\chi} + \frac12\mathcal{A}_{\beta}{}^{\chi}{}_{\alpha}n_{\chi} - \mathcal{A}_{\beta}{}^{\chi\delta}n_{\alpha}n_{\chi}n_{\delta} + \frac12\mathcal{A}^{\chi}{}_{\beta}{}^{\delta}n_{\alpha}n_{\chi}n_{\delta} + \frac12\mathcal{A}^{\chi\delta}{}_{\beta}n_{\alpha}n_{\chi}n_{\delta} + \mathcal{A}_{\alpha}{}^{\chi\delta}n_{\beta}n_{\chi}n_{\delta} - \frac12\mathcal{A}^{\chi}{}_{\alpha}{}^{\delta}n_{\beta}n_{\chi}n_{\delta} - \frac12\mathcal{A}^{\chi\delta}{}_{\alpha}n_{\beta}n_{\chi}n_{\delta}$	$\overset{\#3}{1^{+}}\Delta_{\alpha\beta}$
$\overset{\#1}{1^{-}}\mathcal{A}_{\alpha}$	StrongGenSet[{}, GenSet[]] -	$\frac12\mathcal{A}^{\beta}{}_{\alpha\beta} + \frac12\mathcal{A}^{\beta}{}_{\beta\alpha} - \frac12\mathcal{A}^{\beta}{}_{\beta}{}^{\chi}n_{\alpha}n_{\chi} + \frac12\mathcal{A}^{\beta\chi}{}_{\beta}n_{\alpha}n_{\chi} + \frac12\mathcal{A}^{\beta}{}_{\alpha}{}^{\chi}n_{\beta}n_{\chi} - \frac12\mathcal{A}^{\beta\chi}{}_{\alpha}n_{\beta}n_{\chi}$	$\overset{\#1}{1^{-}}\Delta_{\alpha}$
$\overset{\#2}{1^{-}}\mathcal{A}_{\alpha}$	StrongGenSet[{},GenSet[]]	$\frac12\mathcal{A}^{\beta}{}_{\alpha}{}^{\chi}n_{\beta}n_{\chi} - \frac12\mathcal{A}^{\beta\chi}{}_{\alpha}n_{\beta}n_{\chi}$	$\overset{\#2}{1^{-}}\Delta_{\alpha}$
$\overset{\#3}{1^{-}}\mathcal{A}_{\alpha}$	StrongGenSet[{},GenSet[]]	$\mathcal{A}_{\alpha}{}^{\beta\chi}n_{\beta}n_{\chi} + \mathcal{A}^{\beta}{}_{\alpha}{}^{\chi}n_{\beta}n_{\chi} + \mathcal{A}^{\beta\chi}{}_{\alpha}n_{\beta}n_{\chi} - 3\mathcal{A}^{\beta\chi\delta}n_{\alpha}n_{\beta}n_{\chi}n_{\delta}$	$\overset{\#3}{1^{-}}\Delta_{\alpha}$
$\overset{\#4}{1^{-}}\mathcal{A}_{\alpha}$	StrongGenSet[{},GenSet[]]	$\mathcal{A}_{\alpha}{}^{\beta}{}_{\beta} + \mathcal{A}^{\beta}{}_{\alpha\beta} + \mathcal{A}^{\beta}{}_{\beta\alpha} - \mathcal{A}^{\beta\chi}{}_{\chi}n_{\alpha}n_{\beta} - \mathcal{A}^{\beta}{}_{\beta}{}^{\chi}n_{\alpha}n_{\chi} - \mathcal{A}^{\beta\chi}{}_{\beta}n_{\alpha}n_{\chi} - \mathcal{A}_{\alpha}{}^{\beta\chi}n_{\beta}n_{\chi} - \mathcal{A}^{\beta}{}_{\alpha}{}^{\chi}n_{\beta}n_{\chi} - \mathcal{A}^{\beta\chi}{}_{\alpha}n_{\beta}n_{\chi} + 3\mathcal{A}^{\beta\chi\delta}n_{\alpha}n_{\beta}n_{\chi}n_{\delta}$	$\overset{\#4}{1^{-}}\Delta_{\alpha}$
$\overset{\#5}{1^{-}}\mathcal{A}_{\alpha}$	StrongGenSet[{},GenSet[]]	$\mathcal{A}_{\alpha}{}^{\beta\chi}n_{\beta}n_{\chi} - \frac12\mathcal{A}^{\beta}{}_{\alpha}{}^{\chi}n_{\beta}n_{\chi} - \frac12\mathcal{A}^{\beta\chi}{}_{\alpha}n_{\beta}n_{\chi}$	$\overset{\#5}{1^{-}}\Delta_{\alpha}$
$\overset{\#6}{1^{-}}\mathcal{A}_{\alpha}$	StrongGenSet[{},GenSet[]]	$\mathcal{A}_{\alpha}{}^{\beta}{}_{\beta} - \frac12\mathcal{A}^{\beta}{}_{\alpha\beta} - \frac12\mathcal{A}^{\beta}{}_{\beta\alpha} - \mathcal{A}^{\beta\chi}{}_{\chi}n_{\alpha}n_{\beta} + \frac12\mathcal{A}^{\beta}{}_{\beta}{}^{\chi}n_{\alpha}n_{\chi} + \frac12\mathcal{A}^{\beta\chi}{}_{\beta}n_{\alpha}n_{\chi} - \mathcal{A}_{\alpha}{}^{\beta\chi}n_{\beta}n_{\chi} + \frac12\mathcal{A}^{\beta}{}_{\alpha}{}^{\chi}n_{\beta}n_{\chi} + \frac12\mathcal{A}^{\beta\chi}{}_{\alpha}n_{\beta}n_{\chi}$	$\overset{\#6}{1^{-}}\Delta_{\alpha}$
$\overset{\#1}{2^{+}}\mathcal{A}_{\alpha\beta}$	StrongGenSet[{1, 2}, GenSet[(1,2)]] -	$\frac14\mathcal{A}_{\alpha\beta}{}^{\chi}n_{\chi} + \frac14\mathcal{A}_{\alpha}{}^{\chi}{}_{\beta}n_{\chi} - \frac14\mathcal{A}_{\beta\alpha}{}^{\chi}n_{\chi} + \frac14\mathcal{A}_{\beta}{}^{\chi}{}_{\alpha}n_{\chi} + \frac16\eta_{\alpha\beta}\mathcal{A}^{\chi}{}_{\chi}{}^{\delta}n_{\delta} - \frac16\eta_{\alpha\beta}\mathcal{A}^{\chi\delta}{}_{\chi}n_{\delta} -$ $\frac16\mathcal{A}^{\chi}{}_{\chi}{}^{\delta}n_{\alpha}n_{\beta}n_{\delta} + \frac16\mathcal{A}^{\chi\delta}{}_{\chi}n_{\alpha}n_{\beta}n_{\delta} + \frac14\mathcal{A}^{\chi}{}_{\beta}{}^{\delta}n_{\alpha}n_{\chi}n_{\delta} - \frac14\mathcal{A}^{\chi\delta}{}_{\beta}n_{\alpha}n_{\chi}n_{\delta} + \frac14\mathcal{A}^{\chi}{}_{\alpha}{}^{\delta}n_{\beta}n_{\chi}n_{\delta} - \frac14\mathcal{A}^{\chi\delta}{}_{\alpha}n_{\beta}n_{\chi}n_{\delta}$	$\overset{\#1}{2^{+}}\Delta_{\alpha\beta}$
$\overset{\#2}{2^{+}}\mathcal{A}_{\alpha\beta}$	StrongGenSet[{1,2},GenSet[(1,2)]]	$\frac12\mathcal{A}_{\alpha\beta}{}^{\chi}n_{\chi} + \frac12\mathcal{A}_{\alpha}{}^{\chi}{}_{\beta}n_{\chi} + \frac12\mathcal{A}_{\beta\alpha}{}^{\chi}n_{\chi} + \frac12\mathcal{A}_{\beta}{}^{\chi}{}_{\alpha}n_{\chi} + \frac12\mathcal{A}^{\chi}{}_{\alpha\beta}n_{\chi} + \frac12\mathcal{A}^{\chi}{}_{\beta\alpha}n_{\chi} - \frac13\eta_{\alpha\beta}\mathcal{A}^{\chi\delta}{}_{\delta}n_{\chi} + \frac13\mathcal{A}^{\chi\delta}{}_{\delta}n_{\alpha}n_{\beta}n_{\chi} - \frac13\eta_{\alpha\beta}\mathcal{A}^{\chi}{}_{\chi}{}^{\delta}n_{\delta} - \frac13\eta_{\alpha\beta}\mathcal{A}^{\chi\delta}{}_{\chi}n_{\delta} + \frac13\mathcal{A}^{\chi}{}_{\chi}{}^{\delta}n_{\alpha}n_{\beta}n_{\delta} +$ $\frac13\mathcal{A}^{\chi\delta}{}_{\chi}n_{\alpha}n_{\beta}n_{\delta} - \mathcal{A}_{\beta}{}^{\chi\delta}n_{\alpha}n_{\chi}n_{\delta} - \mathcal{A}^{\chi}{}_{\beta}{}^{\delta}n_{\alpha}n_{\chi}n_{\delta} - \mathcal{A}^{\chi\delta}{}_{\beta}n_{\alpha}n_{\chi}n_{\delta} - \mathcal{A}_{\alpha}{}^{\chi\delta}n_{\beta}n_{\chi}n_{\delta} - \mathcal{A}^{\chi}{}_{\alpha}{}^{\delta}n_{\beta}n_{\chi}n_{\delta} - \mathcal{A}^{\chi\delta}{}_{\alpha}n_{\beta}n_{\chi}n_{\delta} + \eta_{\alpha\beta}\mathcal{A}^{\chi\delta\epsilon}n_{\chi}n_{\delta}n_{\epsilon} + 2\mathcal{A}^{\chi\delta\epsilon}n_{\alpha}n_{\beta}n_{\chi}n_{\delta}n_{\epsilon}$	$\overset{\#2}{2^{+}}\Delta_{\alpha\beta}$
$\overset{\#3}{2^{+}}\mathcal{A}_{\alpha\beta}$	StrongGenSet[{1, 2}, GenSet[(1,2)]] -	$\frac14\mathcal{A}_{\alpha\beta}{}^{\chi}n_{\chi} - \frac14\mathcal{A}_{\alpha}{}^{\chi}{}_{\beta}n_{\chi} - \frac14\mathcal{A}_{\beta\alpha}{}^{\chi}n_{\chi} - \frac14\mathcal{A}_{\beta}{}^{\chi}{}_{\alpha}n_{\chi} + \frac12\mathcal{A}^{\chi}{}_{\alpha\beta}n_{\chi} + \frac12\mathcal{A}^{\chi}{}_{\beta\alpha}n_{\chi} - \frac13\eta_{\alpha\beta}\mathcal{A}^{\chi\delta}{}_{\delta}n_{\chi} + \frac13\mathcal{A}^{\chi\delta}{}_{\delta}n_{\alpha}n_{\beta}n_{\chi} + \frac16\eta_{\alpha\beta}\mathcal{A}^{\chi}{}_{\chi}{}^{\delta}n_{\delta} + \frac16\eta_{\alpha\beta}\mathcal{A}^{\chi\delta}{}_{\chi}n_{\delta} -$ $\frac16\mathcal{A}^{\chi}{}_{\chi}{}^{\delta}n_{\alpha}n_{\beta}n_{\delta} - \frac16\mathcal{A}^{\chi\delta}{}_{\chi}n_{\alpha}n_{\beta}n_{\delta} + \frac12\mathcal{A}_{\beta}{}^{\chi\delta}n_{\alpha}n_{\chi}n_{\delta} - \frac14\mathcal{A}^{\chi}{}_{\beta}{}^{\delta}n_{\alpha}n_{\chi}n_{\delta} - \frac14\mathcal{A}^{\chi\delta}{}_{\beta}n_{\alpha}n_{\chi}n_{\delta} + \frac12\mathcal{A}_{\alpha}{}^{\chi\delta}n_{\beta}n_{\chi}n_{\delta} - \frac14\mathcal{A}^{\chi}{}_{\alpha}{}^{\delta}n_{\beta}n_{\chi}n_{\delta} - \frac14\mathcal{A}^{\chi\delta}{}_{\alpha}n_{\beta}n_{\chi}n_{\delta}$	$\overset{\#3}{2^{+}}\Delta_{\alpha\beta}$
$\overset{\#1}{2^{-}}\mathcal{A}_{\alpha\beta\chi}$	StrongGenSet[{1, 2}, GenSet[-(1,2)]]	$-\frac18\mathcal{A}_{\alpha\beta\chi} + \frac18\mathcal{A}_{\alpha\chi\beta} + \frac18\mathcal{A}_{\beta\alpha\chi} - \frac18\mathcal{A}_{\beta\chi\alpha} + \frac14\mathcal{A}_{\chi\alpha\beta} - \frac14\mathcal{A}_{\chi\beta\alpha} - \frac3{16}\eta_{\beta\chi}\mathcal{A}^{\delta}{}_{\alpha\delta} + \frac3{16}\eta_{\alpha\chi}\mathcal{A}^{\delta}{}_{\beta\delta} + \frac3{16}\eta_{\beta\chi}\mathcal{A}^{\delta}{}_{\delta\alpha} - \frac3{16}\eta_{\alpha\chi}\mathcal{A}^{\delta}{}_{\delta\beta} - \frac3{16}\mathcal{A}^{\delta}{}_{\beta\delta}n_{\alpha}n_{\chi} +$ $\frac3{16}\mathcal{A}^{\delta}{}_{\delta\beta}n_{\alpha}n_{\chi} + \frac3{16}\mathcal{A}^{\delta}{}_{\alpha\delta}n_{\beta}n_{\chi} - \frac3{16}\mathcal{A}^{\delta}{}_{\delta\alpha}n_{\beta}n_{\chi} + \frac18\mathcal{A}_{\beta\chi}{}^{\delta}n_{\alpha}n_{\delta} - \frac18\mathcal{A}_{\beta}{}^{\delta}{}_{\chi}n_{\alpha}n_{\delta} + \frac14\mathcal{A}_{\chi\beta}{}^{\delta}n_{\alpha}n_{\delta} - \frac14\mathcal{A}_{\chi}{}^{\delta}{}_{\beta}n_{\alpha}n_{\delta} + \frac18\mathcal{A}^{\delta}{}_{\beta\chi}n_{\alpha}n_{\delta} - \frac18\mathcal{A}^{\delta}{}_{\chi\beta}n_{\alpha}n_{\delta} -$ $\frac18\mathcal{A}_{\alpha\chi}{}^{\delta}n_{\beta}n_{\delta} + \frac18\mathcal{A}_{\alpha}{}^{\delta}{}_{\chi}n_{\beta}n_{\delta} - \frac14\mathcal{A}_{\chi\alpha}{}^{\delta}n_{\beta}n_{\delta} + \frac14\mathcal{A}_{\chi}{}^{\delta}{}_{\alpha}n_{\beta}n_{\delta} - \frac18\mathcal{A}^{\delta}{}_{\alpha\chi}n_{\beta}n_{\delta} + \frac18\mathcal{A}^{\delta}{}_{\chi\alpha}n_{\beta}n_{\delta} + \frac18\mathcal{A}_{\alpha\beta}{}^{\delta}n_{\chi}n_{\delta} - \frac18\mathcal{A}_{\alpha}{}^{\delta}{}_{\beta}n_{\chi}n_{\delta} - \frac18\mathcal{A}_{\beta\alpha}{}^{\delta}n_{\chi}n_{\delta} +$ $\frac18\mathcal{A}_{\beta}{}^{\delta}{}_{\alpha}n_{\chi}n_{\delta} - \frac14\mathcal{A}^{\delta}{}_{\alpha\beta}n_{\chi}n_{\delta} + \frac14\mathcal{A}^{\delta}{}_{\beta\alpha}n_{\chi}n_{\delta} - \frac3{16}\eta_{\beta\chi}\mathcal{A}^{\delta}{}_{\delta}{}^{\epsilon}n_{\alpha}n_{\epsilon} + \frac3{16}\eta_{\beta\chi}\mathcal{A}^{\delta\epsilon}{}_{\delta}n_{\alpha}n_{\epsilon} + \frac3{16}\eta_{\alpha\chi}\mathcal{A}^{\delta}{}_{\delta}{}^{\epsilon}n_{\beta}n_{\epsilon} - \frac3{16}\eta_{\alpha\chi}\mathcal{A}^{\delta\epsilon}{}_{\delta}n_{\beta}n_{\epsilon} + \frac3{16}\eta_{\beta\chi}\mathcal{A}^{\delta}{}_{\alpha}{}^{\epsilon}n_{\delta}n_{\epsilon} -$ $\frac3{16}\eta_{\alpha\chi}\mathcal{A}^{\delta}{}_{\beta}{}^{\epsilon}n_{\delta}n_{\epsilon} - \frac3{16}\eta_{\beta\chi}\mathcal{A}^{\delta\epsilon}{}_{\alpha}n_{\delta}n_{\epsilon} + \frac3{16}\eta_{\alpha\chi}\mathcal{A}^{\delta\epsilon}{}_{\beta}n_{\delta}n_{\epsilon} - \frac3{16}\mathcal{A}^{\delta}{}_{\beta}{}^{\epsilon}n_{\alpha}n_{\chi}n_{\delta}n_{\epsilon} + \frac3{16}\mathcal{A}^{\delta\epsilon}{}_{\beta}n_{\alpha}n_{\chi}n_{\delta}n_{\epsilon} + \frac3{16}\mathcal{A}^{\delta}{}_{\alpha}{}^{\epsilon}n_{\beta}n_{\chi}n_{\delta}n_{\epsilon} - \frac3{16}\mathcal{A}^{\delta\epsilon}{}_{\alpha}n_{\beta}n_{\chi}n_{\delta}n_{\epsilon}$	$\overset{\#1}{2^{-}}\Delta_{\alpha\beta\chi}$
$\overset{\#2}{2^{-}}\mathcal{A}_{\alpha\beta\chi}$	StrongGenSet[{1, 2}, GenSet[-(1,2)]]	$\frac13\mathcal{A}_{\alpha\beta\chi} + \frac13\mathcal{A}_{\alpha\chi\beta} - \frac13\eta_{\beta\chi}\mathcal{A}_{\alpha}{}^{\delta}{}_{\delta} - \frac13\mathcal{A}_{\beta\alpha\chi} - \frac13\mathcal{A}_{\beta\chi\alpha} + \frac13\eta_{\alpha\chi}\mathcal{A}_{\beta}{}^{\delta}{}_{\delta} + \frac16\eta_{\beta\chi}\mathcal{A}^{\delta}{}_{\alpha\delta} - \frac16\eta_{\alpha\chi}\mathcal{A}^{\delta}{}_{\beta\delta} + \frac16\eta_{\beta\chi}\mathcal{A}^{\delta}{}_{\delta\alpha} - \frac16\eta_{\alpha\chi}\mathcal{A}^{\delta}{}_{\delta\beta} - \frac13\mathcal{A}_{\beta}{}^{\delta}{}_{\delta}n_{\alpha}n_{\chi} + \frac16\mathcal{A}^{\delta}{}_{\beta\delta}n_{\alpha}n_{\chi} +$ $\frac16\mathcal{A}^{\delta}{}_{\delta\beta}n_{\alpha}n_{\chi} + \frac13\mathcal{A}_{\alpha}{}^{\delta}{}_{\delta}n_{\beta}n_{\chi} - \frac16\mathcal{A}^{\delta}{}_{\alpha\delta}n_{\beta}n_{\chi} - \frac16\mathcal{A}^{\delta}{}_{\delta\alpha}n_{\beta}n_{\chi} + \frac13\mathcal{A}_{\beta\chi}{}^{\delta}n_{\alpha}n_{\delta} + \frac13\mathcal{A}_{\beta}{}^{\delta}{}_{\chi}n_{\alpha}n_{\delta} - \frac13\mathcal{A}^{\delta}{}_{\beta\chi}n_{\alpha}n_{\delta} - \frac13\mathcal{A}^{\delta}{}_{\chi\beta}n_{\alpha}n_{\delta} + \frac13\eta_{\beta\chi}\mathcal{A}^{\delta\epsilon}{}_{\epsilon}n_{\alpha}n_{\delta} - \frac13\mathcal{A}_{\alpha\chi}{}^{\delta}n_{\beta}n_{\delta} -$ $\frac13\mathcal{A}_{\alpha}{}^{\delta}{}_{\chi}n_{\beta}n_{\delta} + \frac13\mathcal{A}^{\delta}{}_{\alpha\chi}n_{\beta}n_{\delta} + \frac13\mathcal{A}^{\delta}{}_{\chi\alpha}n_{\beta}n_{\delta} - \frac13\eta_{\alpha\chi}\mathcal{A}^{\delta\epsilon}{}_{\epsilon}n_{\beta}n_{\delta} - \frac13\mathcal{A}_{\alpha\beta}{}^{\delta}n_{\chi}n_{\delta} - \frac13\mathcal{A}_{\alpha}{}^{\delta}{}_{\beta}n_{\chi}n_{\delta} + \frac13\mathcal{A}_{\beta\alpha}{}^{\delta}n_{\chi}n_{\delta} + \frac13\mathcal{A}_{\beta}{}^{\delta}{}_{\alpha}n_{\chi}n_{\delta} - \frac16\eta_{\beta\chi}\mathcal{A}^{\delta}{}_{\delta}{}^{\epsilon}n_{\alpha}n_{\epsilon} -$ $\frac16\eta_{\beta\chi}\mathcal{A}^{\delta\epsilon}{}_{\delta}n_{\alpha}n_{\epsilon} + \frac16\eta_{\alpha\chi}\mathcal{A}^{\delta}{}_{\delta}{}^{\epsilon}n_{\beta}n_{\epsilon} + \frac16\eta_{\alpha\chi}\mathcal{A}^{\delta\epsilon}{}_{\delta}n_{\beta}n_{\epsilon} + \frac13\eta_{\beta\chi}\mathcal{A}_{\alpha}{}^{\delta\epsilon}n_{\delta}n_{\epsilon} - \frac13\eta_{\alpha\chi}\mathcal{A}_{\beta}{}^{\delta\epsilon}n_{\delta}n_{\epsilon} - \frac16\eta_{\beta\chi}\mathcal{A}^{\delta}{}_{\alpha}{}^{\epsilon}n_{\delta}n_{\epsilon} + \frac16\eta_{\alpha\chi}\mathcal{A}^{\delta}{}_{\beta}{}^{\epsilon}n_{\delta}n_{\epsilon} - \frac16\eta_{\beta\chi}\mathcal{A}^{\delta\epsilon}{}_{\alpha}n_{\delta}n_{\epsilon} +$ $\frac16\eta_{\alpha\chi}\mathcal{A}^{\delta\epsilon}{}_{\beta}n_{\delta}n_{\epsilon} - \frac13\mathcal{A}_{\beta}{}^{\delta\epsilon}n_{\alpha}n_{\chi}n_{\delta}n_{\epsilon} + \frac16\mathcal{A}^{\delta}{}_{\beta}{}^{\epsilon}n_{\alpha}n_{\chi}n_{\delta}n_{\epsilon} + \frac16\mathcal{A}^{\delta\epsilon}{}_{\beta}n_{\alpha}n_{\chi}n_{\delta}n_{\epsilon} + \frac13\mathcal{A}_{\alpha}{}^{\delta\epsilon}n_{\beta}n_{\chi}n_{\delta}n_{\epsilon} - \frac16\mathcal{A}^{\delta}{}_{\alpha}{}^{\epsilon}n_{\beta}n_{\chi}n_{\delta}n_{\epsilon} - \frac16\mathcal{A}^{\delta\epsilon}{}_{\alpha}n_{\beta}n_{\chi}n_{\delta}n_{\epsilon}$	$\overset{\#2}{2^{-}}\Delta_{\alpha\beta\chi}$
$\overset{\#1}{3^{-}}\mathcal{A}_{\alpha\beta\chi}$	StrongGenSet[{1, 2, 3}, GenSet[(1,2), (2,3)]]	$\frac16\mathcal{A}_{\alpha\beta\chi} + \frac16\mathcal{A}_{\alpha\chi\beta} - \frac1{15}\eta_{\beta\chi}\mathcal{A}_{\alpha}{}^{\delta}{}_{\delta} + \frac16\mathcal{A}_{\beta\alpha\chi} + \frac16\mathcal{A}_{\beta\chi\alpha} - \frac1{15}\eta_{\alpha\chi}\mathcal{A}_{\beta}{}^{\delta}{}_{\delta} + \frac16\mathcal{A}_{\chi\alpha\beta} + \frac16\mathcal{A}_{\chi\beta\alpha} - \frac1{15}\eta_{\alpha\beta}\mathcal{A}_{\chi}{}^{\delta}{}_{\delta} - \frac1{15}\eta_{\beta\chi}\mathcal{A}^{\delta}{}_{\alpha\delta} - \frac1{15}\eta_{\alpha\chi}\mathcal{A}^{\delta}{}_{\beta\delta} - \frac1{15}\eta_{\alpha\beta}\mathcal{A}^{\delta}{}_{\chi\delta} - \frac1{15}\eta_{\beta\chi}\mathcal{A}^{\delta}{}_{\delta\alpha} -$ $\frac1{15}\eta_{\alpha\chi}\mathcal{A}^{\delta}{}_{\delta\beta} - \frac1{15}\eta_{\alpha\beta}\mathcal{A}^{\delta}{}_{\delta\chi} + \frac1{15}\mathcal{A}_{\chi}{}^{\delta}{}_{\delta}n_{\alpha}n_{\beta} + \frac1{15}\mathcal{A}^{\delta}{}_{\chi\delta}n_{\alpha}n_{\beta} + \frac1{15}\mathcal{A}^{\delta}{}_{\delta\chi}n_{\alpha}n_{\beta} + \frac1{15}\mathcal{A}_{\beta}{}^{\delta}{}_{\delta}n_{\alpha}n_{\chi} + \frac1{15}\mathcal{A}^{\delta}{}_{\beta\delta}n_{\alpha}n_{\chi} + \frac1{15}\mathcal{A}^{\delta}{}_{\delta\beta}n_{\alpha}n_{\chi} + \frac1{15}\mathcal{A}_{\alpha}{}^{\delta}{}_{\delta}n_{\beta}n_{\chi} +$ $\frac1{15}\mathcal{A}^{\delta}{}_{\alpha\delta}n_{\beta}n_{\chi} + \frac1{15}\mathcal{A}^{\delta}{}_{\delta\alpha}n_{\beta}n_{\chi} - \frac16\mathcal{A}_{\beta\chi}{}^{\delta}n_{\alpha}n_{\delta} - \frac16\mathcal{A}_{\beta}{}^{\delta}{}_{\chi}n_{\alpha}n_{\delta} - \frac16\mathcal{A}_{\chi\beta}{}^{\delta}n_{\alpha}n_{\delta} - \frac16\mathcal{A}_{\chi}{}^{\delta}{}_{\beta}n_{\alpha}n_{\delta} - \frac16\mathcal{A}^{\delta}{}_{\beta\chi}n_{\alpha}n_{\delta} - \frac16\mathcal{A}^{\delta}{}_{\chi\beta}n_{\alpha}n_{\delta} + \frac1{15}\eta_{\beta\chi}\mathcal{A}^{\delta\epsilon}{}_{\epsilon}n_{\alpha}n_{\delta} -$ $\frac16\mathcal{A}_{\alpha\chi}{}^{\delta}n_{\beta}n_{\delta} - \frac16\mathcal{A}_{\alpha}{}^{\delta}{}_{\chi}n_{\beta}n_{\delta} - \frac16\mathcal{A}_{\chi\alpha}{}^{\delta}n_{\beta}n_{\delta} - \frac16\mathcal{A}_{\chi}{}^{\delta}{}_{\alpha}n_{\beta}n_{\delta} - \frac16\mathcal{A}^{\delta}{}_{\alpha\chi}n_{\beta}n_{\delta} - \frac16\mathcal{A}^{\delta}{}_{\chi\alpha}n_{\beta}n_{\delta} + \frac1{15}\eta_{\alpha\chi}\mathcal{A}^{\delta\epsilon}{}_{\epsilon}n_{\beta}n_{\delta} - \frac16\mathcal{A}_{\alpha\beta}{}^{\delta}n_{\chi}n_{\delta} - \frac16\mathcal{A}_{\alpha}{}^{\delta}{}_{\beta}n_{\chi}n_{\delta} - \frac16\mathcal{A}_{\beta\alpha}{}^{\delta}n_{\chi}n_{\delta} -$ $\frac16\mathcal{A}_{\beta}{}^{\delta}{}_{\alpha}n_{\chi}n_{\delta} - \frac16\mathcal{A}^{\delta}{}_{\alpha\beta}n_{\chi}n_{\delta} - \frac16\mathcal{A}^{\delta}{}_{\beta\alpha}n_{\chi}n_{\delta} + \frac1{15}\eta_{\alpha\beta}\mathcal{A}^{\delta\epsilon}{}_{\epsilon}n_{\chi}n_{\delta} - \frac15\mathcal{A}^{\delta\epsilon}{}_{\epsilon}n_{\alpha}n_{\beta}n_{\chi}n_{\delta} + \frac1{15}\eta_{\beta\chi}\mathcal{A}^{\delta}{}_{\delta}{}^{\epsilon}n_{\alpha}n_{\epsilon} + \frac1{15}\eta_{\beta\chi}\mathcal{A}^{\delta\epsilon}{}_{\delta}n_{\alpha}n_{\epsilon} + \frac1{15}\eta_{\alpha\chi}\mathcal{A}^{\delta}{}_{\delta}{}^{\epsilon}n_{\beta}n_{\epsilon} +$ $\frac1{15}\eta_{\alpha\chi}\mathcal{A}^{\delta\epsilon}{}_{\delta}n_{\beta}n_{\epsilon} + \frac1{15}\eta_{\alpha\beta}\mathcal{A}^{\delta}{}_{\delta}{}^{\epsilon}n_{\chi}n_{\epsilon} + \frac1{15}\eta_{\alpha\beta}\mathcal{A}^{\delta\epsilon}{}_{\delta}n_{\chi}n_{\epsilon} - \frac15\mathcal{A}^{\delta}{}_{\delta}{}^{\epsilon}n_{\alpha}n_{\beta}n_{\chi}n_{\epsilon} - \frac15\mathcal{A}^{\delta\epsilon}{}_{\delta}n_{\alpha}n_{\beta}n_{\chi}n_{\epsilon} + \frac1{15}\eta_{\beta\chi}\mathcal{A}_{\alpha}{}^{\delta\epsilon}n_{\delta}n_{\epsilon} + \frac1{15}\eta_{\alpha\chi}\mathcal{A}_{\beta}{}^{\delta\epsilon}n_{\delta}n_{\epsilon} +$ $\frac1{15}\eta_{\alpha\beta}\mathcal{A}_{\chi}{}^{\delta\epsilon}n_{\delta}n_{\epsilon} + \frac1{15}\eta_{\beta\chi}\mathcal{A}^{\delta}{}_{\alpha}{}^{\epsilon}n_{\delta}n_{\epsilon} + \frac1{15}\eta_{\alpha\chi}\mathcal{A}^{\delta}{}_{\beta}{}^{\epsilon}n_{\delta}n_{\epsilon} + \frac1{15}\eta_{\alpha\beta}\mathcal{A}^{\delta}{}_{\chi}{}^{\epsilon}n_{\delta}n_{\epsilon} + \frac1{15}\eta_{\beta\chi}\mathcal{A}^{\delta\epsilon}{}_{\alpha}n_{\delta}n_{\epsilon} + \frac1{15}\eta_{\alpha\chi}\mathcal{A}^{\delta\epsilon}{}_{\beta}n_{\delta}n_{\epsilon} + \frac1{15}\eta_{\alpha\beta}\mathcal{A}^{\delta\epsilon}{}_{\chi}n_{\delta}n_{\epsilon} +$ $\frac4{15}\mathcal{A}_{\chi}{}^{\delta\epsilon}n_{\alpha}n_{\beta}n_{\delta}n_{\epsilon} + \frac4{15}\mathcal{A}^{\delta}{}_{\chi}{}^{\epsilon}n_{\alpha}n_{\beta}n_{\delta}n_{\epsilon} + \frac4{15}\mathcal{A}^{\delta\epsilon}{}_{\chi}n_{\alpha}n_{\beta}n_{\delta}n_{\epsilon} + \frac4{15}\mathcal{A}_{\beta}{}^{\delta\epsilon}n_{\alpha}n_{\chi}n_{\delta}n_{\epsilon} + \frac4{15}\mathcal{A}^{\delta}{}_{\beta}{}^{\epsilon}n_{\alpha}n_{\chi}n_{\delta}n_{\epsilon} + \frac4{15}\mathcal{A}^{\delta\epsilon}{}_{\beta}n_{\alpha}n_{\chi}n_{\delta}n_{\epsilon} + \frac4{15}\mathcal{A}_{\alpha}{}^{\delta\epsilon}n_{\beta}n_{\chi}n_{\delta}n_{\epsilon} +$ $\frac4{15}\mathcal{A}^{\delta}{}_{\alpha}{}^{\epsilon}n_{\beta}n_{\chi}n_{\delta}n_{\epsilon} + \frac4{15}\mathcal{A}^{\delta\epsilon}{}_{\alpha}n_{\beta}n_{\chi}n_{\delta}n_{\epsilon} - \frac15\eta_{\beta\chi}\mathcal{A}^{\delta\epsilon\phi}n_{\alpha}n_{\delta}n_{\epsilon}n_{\phi} - \frac15\eta_{\alpha\chi}\mathcal{A}^{\delta\epsilon\phi}n_{\beta}n_{\delta}n_{\epsilon}n_{\phi} - \frac15\eta_{\alpha\beta}\mathcal{A}^{\delta\epsilon\phi}n_{\chi}n_{\delta}n_{\epsilon}n_{\phi} - \frac25\mathcal{A}^{\delta\epsilon\phi}n_{\alpha}n_{\beta}n_{\chi}n_{\delta}n_{\epsilon}n_{\phi}$	$\overset{\#1}{3^{-}}\Delta_{\alpha\beta\chi}$