Fundamental field	Symmetries	Decomposition into SO(3) irrep(s)	Source
$h_{\alpha\beta\chi}$	Symmetry[3, $h^{\bullet1\bullet2\bullet3}$, $\{\bullet1 \to -a, \bullet2 \to -b, \bullet3 \to -c\}$, StrongGenSet[$\{1, 2, 3\}$, GenSet[(1,2), (2,3)]]]	$h^{\#1}_{3^-\ \alpha\beta\chi} + \frac{1}{15}\ \eta_{\beta\chi}\ h^{\#2}_{1^-\ \alpha} + \frac{1}{15}\ \eta_{\alpha\chi}\ h^{\#2}_{1^-\ \beta} + \frac{1}{15}\ \eta_{\alpha\beta}\ h^{\#2}_{1^-\ \chi} + \frac{1}{9}\ \eta_{\beta\chi}\ h^{\#2}_{0^+}\ n_\alpha + \frac{1}{3}\ h^{\#1}_{2^+\ \beta\chi}\ n_\alpha +$ $\frac{1}{9}\ \eta_{\alpha\chi}\ h^{\#2}_{0^+}\ n_\beta + \frac{1}{3}\ h^{\#1}_{2^+\ \alpha\chi}\ n_\beta - \frac{1}{15}\ h^{\#2}_{1^-\ \chi}\ n_\alpha\ n_\beta + \frac{1}{3}\ h^{\#1}_{1^-\ \chi}\ n_\alpha\ n_\beta + \frac{1}{9}\ \eta_{\alpha\beta}\ h^{\#2}_{0^+}\ n_\chi + \frac{1}{3}\ h^{\#1}_{2^+\ \alpha\beta}\ n_\chi -$ $\frac{1}{15}\ h^{\#2}_{1^-\ \beta}\ n_\alpha\ n_\chi + \frac{1}{3}\ h^{\#1}_{1^-\ \beta}\ n_\alpha\ n_\chi - \frac{1}{15}\ h^{\#2}_{1^-\ \alpha}\ n_\beta\ n_\chi + \frac{1}{3}\ h^{\#1}_{1^-\ \alpha}\ n_\beta\ n_\chi - \frac{1}{3}\ h^{\#2}_{0^+}\ n_\alpha\ n_\beta\ n_\chi + h^{\#1}_{0^+}\ n_\alpha\ n_\beta\ n_\chi$	$\mathcal{F}_{\alpha\beta\chi}$

SO(3) irrep	Symmetries	Expansion in terms of the fundamental field	Source SO(3) irrep
$h^{\#1}_{0^+}$	Symmetry[0, $h^{\#1}_{0^+}$, {}, StrongGenSet[{}, GenSet[]]]	$h_{\alpha\beta\chi}\ n^\alpha\ n^\beta\ n^\chi$	$\mathcal{F}^{\#1}_{0^+}$
$h^{\#2}_{0^+}$	Symmetry[0, $h^{\#2}_{0^+}$, {}, StrongGenSet[{}, GenSet[]]]	$3\ h_{\alpha\ \ \beta}^{\ \beta}\ n^\alpha - 3\ h_{\alpha\beta\chi}\ n^\alpha\ n^\beta\ n^\chi$	$\mathcal{F}^{\#2}_{0^+}$
$h^{\#1}_{1^-\ \alpha}$	Symmetry[1, $h^{\#1\bullet1}_{1^-}$, $\{\bullet1 \to -a\}$, StrongGenSet[{}, GenSet[]]]	$3\ h_{\alpha\beta\chi}\ n^\beta\ n^\chi - 3\ h_{\beta\chi\delta}\ n_\alpha\ n^\beta\ n^\chi\ n^\delta$	$\mathcal{F}^{\#1}_{1^-\ \alpha}$
$h^{\#2}_{1^-\ \alpha}$	Symmetry[1, $h^{\#2\bullet1}_{1^-}$, $\{\bullet1 \to -a\}$, StrongGenSet[{}, GenSet[]]]	$3\ h_{\alpha\ \ \beta}^{\ \beta} - 3\ h_{\beta\ \chi}^{\ \chi}\ n_\alpha\ n^\beta - 3\ h_{\alpha\beta\chi}\ n^\beta\ n^\chi + 3\ h_{\beta\chi\delta}\ n_\alpha\ n^\beta\ n^\chi\ n^\delta$	$\mathcal{F}^{\#2}_{1^-\ \alpha}$
$h^{\#1}_{2^+\ \alpha\beta}$	Symmetry[2, $h^{\#1\bullet1\bullet2}_{2^+}$, $\{\bullet1 \to -a, \bullet2 \to -b\}$, StrongGenSet[$\{1, 2\}$, GenSet[(1,2)]]]	$3\ h_{\alpha\beta\chi}\ n^\chi - \eta_{\alpha\beta}\ h_{\chi\ \delta}^{\ \delta}\ n^\chi + h_{\chi\ \delta}^{\ \delta}\ n_\alpha\ n_\beta\ n^\chi - 3\ h_{\beta\chi\delta}\ n_\alpha\ n^\chi\ n^\delta - 3\ h_{\alpha\chi\delta}\ n_\beta\ n^\chi\ n^\delta + \eta_{\alpha\beta}\ h_{\chi\delta\epsilon}\ n^\chi\ n^\delta\ n^\epsilon + 2\ h_{\chi\delta\epsilon}\ n_\alpha\ n_\beta\ n^\chi\ n^\delta\ n^\epsilon$	$\mathcal{F}^{\#1}_{2^+\ \alpha\beta}$
$h^{\#1}_{3^-\ \alpha\beta\chi}$	Symmetry[3, $h^{\#1\bullet1\bullet2\bullet3}_{3^-}$, $\{\bullet1 \to -a, \bullet2 \to -b, \bullet3 \to -c\}$, StrongGenSet[$\{1, 2, 3\}$, GenSet[(1,2), (2,3)]]]	$h_{\alpha\beta\chi} - \frac{1}{5}\ \eta_{\beta\chi}\ h_{\alpha\ \delta}^{\ \delta} - \frac{1}{5}\ \eta_{\alpha\chi}\ h_{\beta\ \delta}^{\ \delta} - \frac{1}{5}\ \eta_{\alpha\beta}\ h_{\chi\ \delta}^{\ \delta} + \frac{1}{5}\ h_{\chi\ \delta}^{\ \delta}\ n_\alpha\ n_\beta + \frac{1}{5}\ h_{\beta\ \delta}^{\ \delta}\ n_\alpha\ n_\chi + \frac{1}{5}\ h_{\alpha\ \delta}^{\ \delta}\ n_\beta\ n_\chi - h_{\beta\chi\delta}\ n_\alpha\ n^\delta + \frac{1}{5}\ \eta_{\beta\chi}\ h_{\delta\ \epsilon}^{\ \epsilon}\ n_\alpha\ n^\delta -$ $h_{\alpha\chi\delta}\ n_\beta\ n^\delta + \frac{1}{5}\ \eta_{\alpha\chi}\ h_{\delta\ \epsilon}^{\ \epsilon}\ n_\beta\ n^\delta - h_{\alpha\beta\delta}\ n_\chi\ n^\delta + \frac{1}{5}\ \eta_{\alpha\beta}\ h_{\delta\ \epsilon}^{\ \epsilon}\ n_\chi\ n^\delta - \frac{3}{5}\ h_{\delta\ \epsilon}^{\ \epsilon}\ n_\alpha\ n_\beta\ n_\chi\ n^\delta + \frac{1}{5}\ \eta_{\beta\chi}\ h_{\alpha\delta\epsilon}\ n^\delta\ n^\epsilon +$ $\frac{1}{5}\ \eta_{\alpha\chi}\ h_{\beta\delta\epsilon}\ n^\delta\ n^\epsilon + \frac{1}{5}\ \eta_{\alpha\beta}\ h_{\chi\delta\epsilon}\ n^\delta\ n^\epsilon + \frac{4}{5}\ h_{\chi\delta\epsilon}\ n_\alpha\ n_\beta\ n^\delta\ n^\epsilon + \frac{4}{5}\ h_{\beta\delta\epsilon}\ n_\alpha\ n_\chi\ n^\delta\ n^\epsilon + \frac{4}{5}\ h_{\alpha\delta\epsilon}\ n_\beta\ n_\chi\ n^\delta\ n^\epsilon -$ $\frac{1}{5}\ \eta_{\beta\chi}\ h_{\delta\epsilon\phi}\ n_\alpha\ n^\delta\ n^\epsilon\ n^\phi - \frac{1}{5}\ \eta_{\alpha\chi}\ h_{\delta\epsilon\phi}\ n_\beta\ n^\delta\ n^\epsilon\ n^\phi - \frac{1}{5}\ \eta_{\alpha\beta}\ h_{\delta\epsilon\phi}\ n_\chi\ n^\delta\ n^\epsilon\ n^\phi - \frac{2}{5}\ h_{\delta\epsilon\phi}\ n_\alpha\ n_\beta\ n_\chi\ n^\delta\ n^\epsilon\ n^\phi$	$\mathcal{F}^{\#1}_{3^-\ \alpha\beta\chi}$