Field kinematics

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

Fundamental fields

Fundamental field	Symmetries	Decomposition in SO(3) irreps	Source
$\theta_{\alpha\beta}$	StrongGenSet[{}, GenSet[]]	$\frac{1}{3}\ \eta_{\alpha\beta}\ \theta_{0^+}^{\#1} + \theta_{1^+}^{\#1}{}_{\alpha\beta} + \theta_{2^+}^{\#1}{}_{\alpha\beta} + \theta_{1^-}^{\#1}{}_{\beta}\ n_{\alpha} + \theta_{1^-}^{\#2}{}_{\alpha}\ n_{\beta} - \frac{1}{3}\ \theta_{0^+}^{\#1}\ n_{\alpha}\ n_{\beta} + \theta_{0^+}^{\#2}\ n_{\alpha}\ n_{\beta}$	$\omega_{\alpha\beta}$

SO(3) irreps

SO(3) irrep	Symmetries	Expansion in fundamental field	Source
$\theta_{0^+}^{\#1}$	StrongGenSet[{}, GenSet[]]	$\theta^{\alpha}{}_{\alpha} - \theta^{\alpha\beta}\ n_{\alpha}\ n_{\beta}$	$\omega_{0^+}^{\#1}$
$\theta_{0^+}^{\#2}$	StrongGenSet[{}, GenSet[]]	$\theta^{\alpha\beta}\ n_{\alpha}\ n_{\beta}$	$\omega_{0^+}^{\#2}$
$\theta_{1^+}^{\#1}{}_{\alpha\beta}$	StrongGenSet[{1, 2}, GenSet[-(1,2)]]	$\frac{\theta_{\alpha\beta}}{2} - \frac{\theta_{\beta\alpha}}{2} + \frac{1}{2}\ \theta_{\beta}{}^{\chi}\ n_{\alpha}\ n_{\chi} - \frac{1}{2}\ \theta^{\chi}{}_{\beta}\ n_{\alpha}\ n_{\chi} - \frac{1}{2}\ \theta_{\alpha}{}^{\chi}\ n_{\beta}\ n_{\chi} + \frac{1}{2}\ \theta^{\chi}{}_{\alpha}\ n_{\beta}\ n_{\chi}$	$\omega_{1^+}^{\#1}{}_{\alpha\beta}$
$\theta_{1^-}^{\#1}{}_{\alpha}$	StrongGenSet[{}, GenSet[]]	$\theta^{\beta}{}_{\alpha}\ n_{\beta} - \theta^{\beta\chi}\ n_{\alpha}\ n_{\beta}\ n_{\chi}$	$\omega_{1^-}^{\#1}{}_{\alpha}$
$\theta_{1^-}^{\#2}{}_{\alpha}$	StrongGenSet[{}, GenSet[]]	$\theta_{\alpha}{}^{\beta}\ n_{\beta} - \theta^{\beta\chi}\ n_{\alpha}\ n_{\beta}\ n_{\chi}$	$\omega_{1^-}^{\#2}{}_{\alpha}$
$\theta_{2^+}^{\#1}{}_{\alpha\beta}$	StrongGenSet[{1, 2}, GenSet[(1,2)]]	$\frac{\theta_{\alpha\beta}}{2} + \frac{\theta_{\beta\alpha}}{2} - \frac{1}{3}\ \eta_{\alpha\beta}\ \theta^{\chi}{}_{\chi} + \frac{1}{3}\ \theta^{\chi}{}_{\chi}\ n_{\alpha}\ n_{\beta} - \frac{1}{2}\ \theta_{\beta}{}^{\chi}\ n_{\alpha}\ n_{\chi} - \frac{1}{2}\ \theta^{\chi}{}_{\beta}\ n_{\alpha}\ n_{\chi} - \frac{1}{2}\ \theta_{\alpha}{}^{\chi}\ n_{\beta}\ n_{\chi} - \frac{1}{2}\ \theta^{\chi}{}_{\alpha}\ n_{\beta}\ n_{\chi} + \frac{1}{3}\ \eta_{\alpha\beta}\ \theta^{\chi\delta}\ n_{\chi}\ n_{\delta} + \frac{2}{3}\ \theta^{\chi\delta}\ n_{\alpha}\ n_{\beta}\ n_{\chi}\ n_{\delta}$	$\omega_{2^+}^{\#1}{}_{\alpha\beta}$