Field kinematics

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

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} $	$\omega_{lphaeta}$

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[]]	$\theta^{\alpha\beta} n_{\alpha} n_{\beta}$	$\omega_{0}^{#2}$
$ heta_{1}^{\#1}{}_{lphaeta}$	StrongGenSet[{1, 2}, GenSet[-(1,2)]]	$\frac{\theta_{\alpha\beta}}{2} - \frac{\theta_{\beta\alpha}}{2} + \frac{1}{2} \theta_{\beta}^{\chi} n_{\alpha} n_{\chi} - \frac{1}{2} \theta_{\beta}^{\chi} n_{\alpha} n_{\chi} - \frac{1}{2} \theta_{\alpha}^{\chi} n_{\beta} n_{\chi} + \frac{1}{2} \theta_{\alpha}^{\chi} n_{\beta} n_{\chi}$	$\omega_{1}^{\#1}{}_{lphaeta}$
$ heta_1^{\#1}{}_{lpha}$	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[]]	$\theta_{\alpha}^{\beta} n_{\beta} - \theta^{\beta \chi} n_{\alpha} n_{\beta} n_{\chi}$	$\omega_{1}^{\#2}$ α
$ heta_{2}^{\#1}{}_{lphaeta}$	StrongGenSet[{1, 2}, GenSet[(1,2)]]		$\omega_{2^{+}\alpha\beta}^{\#1}$
		$ \frac{1}{2} \theta_{\alpha}^{\chi} n_{\beta} n_{\chi}^{-\frac{1}{2}} \theta_{\alpha}^{\chi} 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} $	