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
$f_{\alpha\beta}$	StrongGenSet[{}, GenSet[]]	$\frac{1}{3}\ \eta_{\alpha\beta}\ f_{0^+}^{\#1} + f_{1^+}^{\#1}{}_{\alpha\beta} + f_{2^+}^{\#1}{}_{\alpha\beta} + f_{1^-}^{\#1}{}_{\beta}\ n_{\alpha} + f_{1^-}^{\#2}{}_{\alpha}\ n_{\beta} - \frac{1}{3}\ f_{0^+}^{\#1}\ n_{\alpha}\ n_{\beta} + f_{0^+}^{\#2}\ n_{\alpha}\ n_{\beta}$	$\tau_{\alpha\beta}$

SO(3) irreps

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