Field kinematics

Basic conventions

Minkowski metric tensor	Totally antisymmetric tensor	Momentum	Norm	Frame
$\eta_{\mu\nu}$	$\epsilon\,\eta_{\mu\nu\rho\sigma}$	k^μ	$k^2 == k_\mu\,k^\mu$	$n^\mu == \dfrac{k^\mu}{k}$

Fundamental fields

Fundamental field	Symmetries	Decomposition in SO(3) irreps	Source
$\mathcal{B}_{\alpha\beta}$	Symmetry[2, $\mathcal{B}^{\bullet 1 \bullet 2}$, {$\bullet 1 \rightarrow$ -a, $\bullet 2 \rightarrow$ -b}, StrongGenSet[{1, 2}, GenSet[-(1,2)]]]	$\mathcal{B}^{\#1}_{1^+\,\alpha\beta} - \mathcal{B}^{\#1}_{1^-\,\beta}\,n_\alpha + \mathcal{B}^{\#1}_{1^-\,\alpha}\,n_\beta$	$\mathcal{T}_{\alpha\beta}$

SO(3) irreps

SO(3) irrep	Symmetries	Expansion in terms of the fundamental field	Source
$\mathcal{B}^{\#1}_{1^+\,\alpha\beta}$	Symmetry[2, $\mathcal{B}^{\#1\,\bullet 1 \bullet 2}_{1^+}$, {$\bullet 1 \rightarrow$ -a, $\bullet 2 \rightarrow$ -b}, StrongGenSet[{1, 2}, GenSet[-(1,2)]]]	$\mathcal{B}_{\alpha\beta} + \mathcal{B}_{\beta\chi}\,n_\alpha\,n^\chi - \mathcal{B}_{\alpha\chi}\,n_\beta\,n^\chi$	$\mathcal{T}^{\#1}_{1^+\,\alpha\beta}$
$\mathcal{B}^{\#1}_{1^-\,\alpha}$	Symmetry[1, $\mathcal{B}^{\#1\,\bullet 1}_{1^-}$, {$\bullet 1 \rightarrow$ -a}, StrongGenSet[{}, GenSet[]]]	$\mathcal{B}_{\alpha\beta}\,n^\beta$	$\mathcal{T}^{\#1}_{1^-\,\alpha}$