

# Field kinematics

Basic conventions				
Minkowski metric tensor	Totally antisymmetric tensor	Four-momentum	Four-momentum norm	Massive rest-frame
$\eta_{\mu\nu}$	$\epsilon\eta_{\mu\nu\rho\sigma}$	$k^\mu$	$k^2 == k_\mu\ k^\mu$	$n^\mu == \frac{k^\mu}{k}$

## 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[]]	$\mathcal{B}_{\alpha\beta}\ n^\beta$	$\mathcal{T}^{\#1}_{1^-\alpha}$