

# 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
$\mathcal{B}_\alpha$	Symmetry[1, $\mathcal{B}^{\bullet 1}$ , { $\bullet 1 \rightarrow -a$ }, StrongGenSet[{}], GenSet[]]	$\mathcal{B}^{\#1}_{1^-}{}_\alpha + \mathcal{B}^{\#1}_{0^+} n_\alpha$	$\mathcal{T}_\alpha$

## SO(3) irreps

SO(3) irrep	Symmetries	Expansion in terms of the fundamental field	Source
$\mathcal{B}^{\#1}_{0^+}$	Symmetry[0, $\mathcal{B}^{\#1}_{0^+}$ , {}, StrongGenSet[{}], GenSet[]]	$\mathcal{B}^\alpha n_\alpha$	$\mathcal{T}^{\#1}_{0^+}$
$\mathcal{B}^{\#1}_{1^-}{}_\alpha$	Symmetry[1, $\mathcal{B}^{\#1\bullet 1}_{1^-}$ , { $\bullet 1 \rightarrow -a$ }, StrongGenSet[{}], GenSet[]]	$\mathcal{B}_\alpha - \mathcal{B}^\beta n_\alpha n_\beta$	$\mathcal{T}^{\#1}_{1^-}{}_\alpha$