# Field kinematics

## Basic conventions

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

# Fundamental fields

| Fundamental field | Symmetries | Decomposition in SO(3) irreps | Source |
|---|---|---|---|
| $\phi$ | Symmetry[0, $\phi$, {}, StrongGenSet[{}, GenSet[]]] | $\phi_{0^+}^{\#1}$ | $\rho$ |

# SO(3) irreps

| SO(3) irrep | Symmetries | Expansion in terms of the fundamental field | Source |
|---|---|---|---|
| $\phi_{0^+}^{\#1}$ | Symmetry[0, $\phi_{0^+}^{\#1}$, {}, StrongGenSet[{}, GenSet[]]] | $\phi$ | $\rho_{0^+}^{\#1}$ |