Field kinematics

Basic conventions						
Minkowski metric ten	sor Totally antisymmetric tensor	Momentum	Norm	Frame		
$\eta_{\mu u}$	$\epsilon \eta_{\mu \nu \rho \sigma}$	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	
$h_{lphaeta}$	Symmetry[2, $h^{\bullet 1 \bullet 2}$, $\{ \bullet 1 \rightarrow -a, \bullet 2 \rightarrow -b \}$, StrongGenSet[$\{ 1, 2 \}$, GenSet[$(1, 2)$]]]	$\frac{1}{3} \eta_{\alpha\beta} h_{0^{+}}^{\#1} + h_{2^{+}\alpha\beta}^{\#1} + h_{1^{-}\beta}^{\#1} n_{\alpha} + h_{1^{-}\alpha}^{\#1} n_{\beta}^{-\frac{1}{3}} h_{0^{+}}^{\#1} n_{\alpha} n_{\beta} + h_{0^{+}}^{\#2} n_{\alpha} n_{\beta}$	${\cal T}_{lphaeta}$	

SO(3) irre	eps			
SO(3) irrep	Symmetries	Expansion in terms of the fundamental field		
$h_{0+}^{\#1}$	Symmetry[0, $h_0^{#1}$, {}, StrongGenSet[{}, GenSet[]]]	$h^{\alpha}_{\alpha} - h_{\alpha\beta} n^{\alpha} n^{\beta}$		

 $h_{\alpha\beta} n^{\alpha} \overline{n^{\beta}}$

Source

 $\mathcal{T}_{2^{+}\alpha\beta}^{\sharp 1}$

Symmetry[0, h_{0+}^{2} , {}, StrongGenSet[{}, GenSet[]]] Symmetry[2, $h_{2+}^{\#1} \bullet 1 \bullet 2$, $\{ \bullet 1 \rightarrow -a, \bullet 2 \rightarrow -b \}$,

 $h_{2}^{\#1}{}_{\alpha\beta}$

 $h_{1}^{\#1}\alpha$

StrongGenSet[{1, 2}, GenSet[(1,2)]]]

Symmetry[1, $h_{1}^{\#1} \bullet 1$, $\{ \bullet 1 \rightarrow -a \}$, StrongGenSet[$\{ \}$, GenSet[$\} \}$] $h_{\alpha\beta} n^{\beta} - h_{\beta\chi} n_{\alpha} n^{\beta} n^{\chi}$