

Field kinematics

Momentum	Norm	Frame
$\tilde{e}^{\textcircled{0}}$	$\tilde{e}^2 \varphi \tilde{e}_{\textcircled{0}} \tilde{e}^{\textcircled{0}}$	$\tilde{e}^{\textcircled{z}} \varphi \frac{\tilde{e}^{\textcircled{0}}}{\tilde{e}}$

Fundamental fields

Fields	Symmetries	SO(3)	Sources
$\tilde{E}_{\textcolor{teal}{j}-}$	StrongGenSet[{1, 2}, GenSet[(1,2)]]	$\frac{1}{3} \varpi_{\textcolor{teal}{j}-} \overset{\textcolor{teal}{\#}1}{0^+} \tilde{E} + \frac{\textcolor{teal}{\#}1}{2^+} \tilde{E}_{\textcolor{teal}{j}-} + \frac{\textcolor{teal}{\#}1}{1^-} \tilde{E}_{-} \tilde{e}_{\textcolor{teal}{j}} + \frac{\textcolor{teal}{\#}1}{1^-} \tilde{E}_{\textcolor{teal}{j}} \tilde{e}_{-} - \frac{1}{3} \overset{\textcolor{teal}{\#}1}{0^+} \tilde{E} \tilde{e}_{\textcolor{teal}{j}} \tilde{e}_{-} + \overset{\textcolor{teal}{\#}2}{0^+} \tilde{E} \tilde{e}_{\textcolor{teal}{j}} \tilde{e}_{-}$	$Y_{\textcolor{teal}{j}-}$

SO(3) irreps

SO(3)	Symmetries	Expansion	Sources
$\overset{\textcolor{teal}{\#}1}{0^+} \tilde{E}$	StrongGenSet[{}, GenSet[]]	$\tilde{E}_{\textcolor{teal}{j}}^{\textcolor{teal}{j}} - \tilde{E}_{\textcolor{teal}{j}-} \tilde{e}^{\textcolor{teal}{j}} \tilde{e}^{\sim}$	$\overset{\textcolor{teal}{\#}1}{0^+} Y$
$\overset{\textcolor{teal}{\#}2}{0^+} \tilde{E}$	StrongGenSet[{}, GenSet[]]	$\tilde{E}_{\textcolor{teal}{j}-} \tilde{e}^{\textcolor{teal}{j}} \tilde{e}^{\sim}$	$\overset{\textcolor{teal}{\#}2}{0^+} Y$
$\overset{\textcolor{teal}{\#}1}{2^+} \tilde{E}_{\textcolor{teal}{j}-}$	StrongGenSet[{1, 2}, GenSet[(1,2)]]	$\tilde{E}_{\textcolor{teal}{j}-} - \frac{1}{3} \varpi_{\textcolor{teal}{j}-} \tilde{E}^{\textcolor{teal}{j}} + \frac{1}{3} \tilde{E}^{\textcolor{teal}{j}} \tilde{e}_{\textcolor{teal}{j}} \tilde{e}_{-} - \tilde{E}_{\textcolor{teal}{j}} \tilde{e}_{\textcolor{teal}{j}} - \tilde{E}_{\textcolor{teal}{j}-} \tilde{e}_{\textcolor{teal}{j}} \tilde{e}^{\textcolor{teal}{j}} - \tilde{E}_{\textcolor{teal}{j}} \tilde{e}^{\textcolor{teal}{j}} - \tilde{E}_{\textcolor{teal}{j}} \tilde{e}^{\textcolor{teal}{j}} + \frac{1}{3} \varpi_{\textcolor{teal}{j}-} \tilde{E}_{\textcolor{teal}{i}} \tilde{e}^{\textcolor{teal}{j}} \tilde{e}^{\textcolor{teal}{i}} + \frac{2}{3} \tilde{E}_{\textcolor{teal}{i}} \tilde{e}_{\textcolor{teal}{j}} \tilde{e}_{-} \tilde{e}^{\textcolor{teal}{j}} \tilde{e}^{\textcolor{teal}{i}}$	$\overset{\textcolor{teal}{\#}1}{2^+} Y_{\textcolor{teal}{j}-}$
$\overset{\textcolor{teal}{\#}1}{1^-} \tilde{E}_{\textcolor{teal}{j}}$	StrongGenSet[{}, GenSet[]]	$\tilde{E}_{\textcolor{teal}{j}-} \tilde{e}^{\sim} - \tilde{E}_{\textcolor{teal}{j}} \tilde{e}_{\textcolor{teal}{j}} \tilde{e}^{\sim} \tilde{e}^{\textcolor{teal}{j}}$	$\overset{\textcolor{teal}{\#}1}{1^-} Y_{\textcolor{teal}{j}}$