PSALTer kinematic panel

Momentum	Norm	Frame
k^{μ}	$k^2 == k_{\mu}\ k^{\mu}$	$n^{\mu} == \frac{k^{\mu}}{k}$

Fundamental fields

Fields	Symmetries	SO(3)	Sources
$\theta_{\alpha\beta}$	StrongGenSet[{}, GenSet[]]	$\frac{1}{3}\ \eta_{\alpha\beta}\ \overset{\#1}{0^+}\theta + \overset{\#1}{1^+}\theta_{\alpha\beta} + \overset{\#1}{2^+}\theta_{\alpha\beta} + \overset{\#1}{1^-}\theta_{\beta}\ n_{\alpha} + \overset{\#2}{1^-}\theta_{\alpha}\ n_{\beta} - \frac{1}{3}\overset{\#1}{0^+}\theta\ n_{\alpha}\ n_{\beta} + \overset{\#2}{0^+}\theta\ n_{\alpha}\ n_{\beta}$	$\omega_{\alpha\beta}$

SO(3) irreps

SO(3)	Symmetries	Expansion	Sources
$\overset{\#1}{0^+}\theta$	StrongGenSet[{}, GenSet[]]	$\theta^{\alpha}{}_{\alpha} - \theta^{\alpha\beta}\ n_{\alpha}\ n_{\beta}$	$\overset{\#1}{0^+}\omega$
$\overset{\#2}{0^+}\theta$	StrongGenSet[{}, GenSet[]]	$\theta^{\alpha\beta}\ n_{\alpha}\ n_{\beta}$	$\overset{\#2}{0^+}\omega$
$\overset{\#1}{1^+}\theta_{\alpha\beta}$	StrongGenSet[{1, 2}, GenSet[-(1,2)]]	$\frac{\theta_{\alpha\beta}}{2} - \frac{\theta_{\beta\alpha}}{2} + \frac{1}{2}\ \theta_{\beta}{}^{\chi}\ n_{\alpha}\ n_{\chi} - \frac{1}{2}\ \theta^{\chi}{}_{\beta}\ n_{\alpha}\ n_{\chi} - \frac{1}{2}\ \theta_{\alpha}{}^{\chi}\ n_{\beta}\ n_{\chi} + \frac{1}{2}\ \theta^{\chi}{}_{\alpha}\ n_{\beta}\ n_{\chi}$	$\overset{\#1}{1^+}\omega_{\alpha\beta}$
$\overset{\#1}{1^-}\theta_{\alpha}$	StrongGenSet[{}, GenSet[]]	$\theta^{\beta}{}_{\alpha}\ n_{\beta} - \theta^{\beta\chi}\ n_{\alpha}\ n_{\beta}\ n_{\chi}$	$\overset{\#1}{1^-}\omega_{\alpha}$
$\overset{\#2}{1^-}\theta_{\alpha}$	StrongGenSet[{}, GenSet[]]	$\theta_{\alpha}{}^{\beta}\ n_{\beta} - \theta^{\beta\chi}\ n_{\alpha}\ n_{\beta}\ n_{\chi}$	$\overset{\#2}{1^-}\omega_{\alpha}$
$\overset{\#1}{2^+}\theta_{\alpha\beta}$	StrongGenSet[{1, 2}, GenSet[(1,2)]]	$\frac{\theta_{\alpha\beta}}{2} + \frac{\theta_{\beta\alpha}}{2} - \frac{1}{3}\ \eta_{\alpha\beta}\ \theta^{\chi}{}_{\chi} + \frac{1}{3}\ \theta^{\chi}{}_{\chi}\ n_{\alpha}\ n_{\beta} - \frac{1}{2}\ \theta_{\beta}{}^{\chi}\ n_{\alpha}\ n_{\chi} - \frac{1}{2}\ \theta^{\chi}{}_{\beta}\ n_{\alpha}\ n_{\chi} - \frac{1}{2}\ \theta_{\alpha}{}^{\chi}\ n_{\beta}\ n_{\chi} - \frac{1}{2}\ \theta^{\chi}{}_{\alpha}\ n_{\beta}\ n_{\chi} + \frac{1}{3}\ \eta_{\alpha\beta}\ \theta^{\chi\ \delta}\ n_{\chi}\ n_{\delta} + \frac{2}{3}\ \theta^{\chi\ \delta}\ n_{\alpha}\ n_{\beta}\ n_{\chi}\ n_{\delta}$	$\overset{\#1}{2^+}\omega_{\alpha\beta}$