# PSALTer kinematic panel

| Momentum | Norm | Frame |
|---|---|---|
| $k^\mu$ | $k^2 == k_\mu\ k^\mu$ | $n^\mu == \dfrac{k^\mu}{k}$ |

# Fundamental fields

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

# SO(3) irreps

| SO(3) | Symmetries | Expansion | Sources |
|---|---|---|---|
| $\overset{\#1}{0^+}\psi$ | StrongGenSet[$\{\}$, GenSet[]] | $\psi^\alpha{}_\alpha - \psi_{\alpha\beta}\ n^\alpha\ n^\beta$ | $\overset{\#1}{0^+}\chi$ |
| $\overset{\#2}{0^+}\psi$ | StrongGenSet[$\{\}$, GenSet[]] | $\psi_{\alpha\beta}\ n^\alpha\ n^\beta$ | $\overset{\#2}{0^+}\chi$ |
| $\overset{\#1}{2^+}\psi_{\alpha\beta}$ | StrongGenSet[$\{1,2\}$, GenSet[$(1,2)$]] | $\psi_{\alpha\beta} - \frac{1}{3}\ \eta_{\alpha\beta}\ \psi^\chi{}_\chi + \frac{1}{3}\ \psi^\chi{}_\chi\ n_\alpha\ n_\beta - \psi_{\beta\chi}\ n_\alpha\ n^\chi - \psi_{\alpha\chi}\ n_\beta\ n^\chi + \frac{1}{3}\ \eta_{\alpha\beta}\ \psi_{\chi\,\delta}\ n^\chi\ n^\delta + \frac{2}{3}\ \psi_{\chi\,\delta}\ n_\alpha\ n_\beta\ n^\chi\ n^\delta$ | $\overset{\#1}{2^+}\chi_{\alpha\beta}$ |
| $\overset{\#1}{1^-}\psi_\alpha$ | StrongGenSet[$\{\}$, GenSet[]] | $\psi_{\alpha\beta}\ n^\beta - \psi_{\beta\chi}\ n_\alpha\ n^\beta\ n^\chi$ | $\overset{\#1}{1^-}\chi_\alpha$ |