PSALTer kinematic panel

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

Fundamental fields

Fields	Symmetries	SO(3)	Sources
$h_{\alpha\beta}$	StrongGenSet[{1,2},GenSet[(1,2)]]	$\frac{1}{3}\eta_{\alpha\beta}\;{}^{0^+}\!h^{\parallel} - \frac{1}{3}n_\alpha\,n_\beta\;{}^{0^+}\!h^{\parallel} + {}^{2^+}\!h^{\parallel}_{\alpha\beta} + n_\alpha\,n_\beta\;{}^{0^+}\!h^{\perp} + n_\beta\;{}^{1^+}\!h^{\perp}_{\alpha} + n_\alpha\;{}^{1^+}\!h^{\perp}_{\beta}$	$\mathcal{T}_{\alpha\beta}$
$\mathcal{A}_{\alpha\beta\chi}$	StrongGenSet[{1,3},GenSet[(1,3)]]	$\frac{1}{9}\eta_{\beta\chi}\,n_\alpha\;{}^{0^+}\!\mathcal{A}_s^{\parallel} + \frac{1}{9}\eta_{\alpha\chi}\,n_\beta\;{}^{0^+}\!\mathcal{A}_s^{\parallel} + \frac{1}{9}\eta_{\alpha\beta}\,n_\chi\;{}^{0^+}\!\mathcal{A}_s^{\parallel} - \frac{1}{3}n_\alpha\,n_\beta\,n_\chi\;{}^{0^+}\!\mathcal{A}_s^{\parallel} + \frac{1}{2}n_\chi\;{}^{1^+}\!\mathcal{A}_s^{\perp}{}_{\alpha\beta} - \frac{1}{2}n_\alpha\;{}^{1^+}\!\mathcal{A}_s^{\perp}{}_{\beta\chi} + {}^{2^-}\!\mathcal{A}_s^{\parallel}{}_{\alpha\chi\beta} + \frac{1}{3}n_\chi\;{}^{2^+}\!\mathcal{A}_s^{\parallel}{}_{\alpha\beta} + \frac{1}{3}n_\beta\;{}^{2^+}\!\mathcal{A}_s^{\parallel}{}_{\alpha\chi} +$ $\frac{1}{3}n_\alpha\;{}^{2^+}\!\mathcal{A}_s^{\parallel}{}_{\beta\chi} + {}^{3^-}\!\mathcal{A}_s^{\parallel}{}_{\alpha\beta\chi} - \frac{1}{6}\eta_{\beta\chi}\;{}^{1^-}\!\mathcal{A}_s^{\parallel h}{}_\alpha + \frac{1}{6}n_\beta\,n_\chi\;{}^{1^-}\!\mathcal{A}_s^{\parallel h}{}_\alpha + \frac{1}{3}\eta_{\alpha\chi}\;{}^{1^-}\!\mathcal{A}_s^{\parallel h}{}_\beta - \frac{1}{3}n_\alpha\,n_\chi\;{}^{1^-}\!\mathcal{A}_s^{\parallel h}{}_\beta - \frac{1}{6}\eta_{\alpha\beta}\;{}^{1^-}\!\mathcal{A}_s^{\parallel h}{}_\chi + \frac{1}{6}n_\alpha\,n_\beta\;{}^{1^-}\!\mathcal{A}_s^{\parallel h}{}_\chi + \frac{1}{15}\eta_{\beta\chi}\;{}^{1^-}\!\mathcal{A}_s^{\parallel t}{}_\alpha -$ $\frac{1}{15}n_\beta\,n_\chi\;{}^{1^-}\!\mathcal{A}_s^{\parallel t}{}_\alpha + \frac{1}{15}\eta_{\alpha\chi}\;{}^{1^-}\!\mathcal{A}_s^{\parallel t}{}_\beta - \frac{1}{15}n_\alpha\,n_\chi\;{}^{1^-}\!\mathcal{A}_s^{\parallel t}{}_\beta + \frac{1}{15}\eta_{\alpha\beta}\;{}^{1^-}\!\mathcal{A}_s^{\parallel t}{}_\chi - \frac{1}{15}n_\alpha\,n_\beta\;{}^{1^-}\!\mathcal{A}_s^{\parallel t}{}_\chi - \frac{1}{3}n_\chi\;{}^{2^+}\!\mathcal{A}_s^{\perp}{}_{\alpha\beta} + \frac{2}{3}n_\beta\;{}^{2^+}\!\mathcal{A}_s^{\perp}{}_{\alpha\chi} - \frac{1}{3}n_\alpha\;{}^{2^+}\!\mathcal{A}_s^{\perp}{}_{\beta\chi} - \frac{1}{9}\eta_{\beta\chi}\,n_\alpha\;{}^{0^+}\!\mathcal{A}_s^{\perp h} +$ $\frac{2}{9}\eta_{\alpha\chi}\,n_\beta\;{}^{0^+}\!\mathcal{A}_s^{\perp h} - \frac{1}{9}\eta_{\alpha\beta}\,n_\chi\;{}^{0^+}\!\mathcal{A}_s^{\perp h} - \frac{1}{3}n_\beta\,n_\chi\;{}^{1^-}\!\mathcal{A}_s^{\perp h}{}_\alpha + \frac{2}{3}n_\alpha\,n_\chi\;{}^{1^-}\!\mathcal{A}_s^{\perp h}{}_\chi - \frac{1}{3}n_\alpha\,n_\beta\;{}^{1^-}\!\mathcal{A}_s^{\perp h}{}_\chi + n_\alpha\,n_\beta\,n_\chi\;{}^{0^+}\!\mathcal{A}_s^{\perp t} + \frac{1}{3}n_\beta\,n_\chi\;{}^{1^-}\!\mathcal{A}_s^{\perp t}{}_\alpha + \frac{1}{3}n_\alpha\,n_\chi\;{}^{1^-}\!\mathcal{A}_s^{\perp t}{}_\beta + \frac{1}{3}n_\alpha\,n_\beta\;{}^{1^-}\!\mathcal{A}_s^{\perp t}{}_\chi$	$\mathcal{W}_{\alpha\beta\chi}$

SO(3) irreps

SO(3)	Symmetries	Expansion	Sources
${}^{0^+}\!h^{\perp}$	StrongGenSet[{},GenSet[]]	$n^\alpha\,n^\beta\,h_{\alpha\beta}$	${}^{0^+}\!\mathcal{T}^{\perp}$
${}^{0^+}\!h^{\parallel}$	StrongGenSet[{}, GenSet[]] -	$n^\alpha\,n^\beta\,h_{\alpha\beta} + h^\alpha{}_\alpha$	${}^{0^+}\!\mathcal{T}^{\parallel}$
${}^{1^+}\!h^{\perp}_{\alpha}$	StrongGenSet[{},GenSet[]]	$n^\beta\,h_{\alpha\beta} - n_\alpha\,n^\beta\,n^\chi\,h_{\beta\chi}$	${}^{1^+}\!\mathcal{T}^{\perp}_{\alpha}$
${}^{2^+}\!h^{\parallel}_{\alpha\beta}$	StrongGenSet[{1,2},GenSet[(1,2)]]	$h_{\alpha\beta} - n_\beta\,n^\chi\,h_{\alpha\chi} - n_\alpha\,n^\chi\,h_{\beta\chi} + \frac{1}{3}\eta_{\alpha\beta}\,n^\chi\,n^\delta\,h_{\chi\delta} + \frac{2}{3}n_\alpha\,n_\beta\,n^\chi\,n^\delta\,h_{\chi\delta} - \frac{1}{3}\eta_{\alpha\beta}\,h^\chi{}_\chi + \frac{1}{3}n_\alpha\,n_\beta\,h^\chi{}_\chi$	${}^{2^+}\!\mathcal{T}^{\parallel}_{\alpha\beta}$
${}^{0^+}\!\mathcal{A}_s^{\perp t}$	StrongGenSet[{},GenSet[]]	$n^\alpha\,n^\beta\,n^\chi\,\mathcal{A}_{\alpha\beta\chi}$	${}^{0^+}\!\mathcal{W}_s^{\perp t}$
${}^{0^+}\!\mathcal{A}_s^{\parallel}$	StrongGenSet[{}, GenSet[]] -3	$n^\alpha\,n^\beta\,n^\chi\,\mathcal{A}_{\alpha\beta\chi} + 2\,n^\alpha\,\mathcal{A}_\alpha{}^\beta{}_\beta + n^\alpha\,\mathcal{A}^\beta{}_{\alpha\beta}$	${}^{0^+}\!\mathcal{W}_s^{\parallel}$
${}^{0^+}\!\mathcal{A}_s^{\perp h}$	StrongGenSet[{}, GenSet[]] -	$n^\alpha\,\mathcal{A}_\alpha{}^\beta{}_\beta + n^\alpha\,\mathcal{A}^\beta{}_{\alpha\beta}$	${}^{0^+}\!\mathcal{W}_s^{\perp h}$
${}^{1^+}\!\mathcal{A}_s^{\perp}{}_{\alpha\beta}$	StrongGenSet[{1,2},GenSet[-(1,2)]]	$n^\chi\,\mathcal{A}_{\alpha\beta\chi} - n_\beta\,n^\chi\,n^\delta\,\mathcal{A}_{\alpha\chi\delta} - n^\chi\,\mathcal{A}_{\beta\alpha\chi} + n_\alpha\,n^\chi\,n^\delta\,\mathcal{A}_{\beta\chi\delta} + n_\beta\,n^\chi\,n^\delta\,\mathcal{A}_{\chi\alpha\delta} - n_\alpha\,n^\chi\,n^\delta\,\mathcal{A}_{\chi\beta\delta}$	${}^{1^+}\!\mathcal{W}_s^{\perp}{}_{\alpha\beta}$
${}^{1^-}\!\mathcal{A}_s^{\perp t}{}_{\alpha}$	StrongGenSet[{}, GenSet[]] 2	$n^\beta\,n^\chi\,\mathcal{A}_{\alpha\beta\chi} + n^\beta\,n^\chi\,\mathcal{A}_{\beta\alpha\chi} - 3\,n_\alpha\,n^\beta\,n^\chi\,n^\delta\,\mathcal{A}_{\beta\chi\delta}$	${}^{1^-}\!\mathcal{W}_s^{\perp t}{}_{\alpha}$
${}^{1^-}\!\mathcal{A}_s^{\parallel t}{}_{\alpha}$	StrongGenSet[{}, GenSet[]] -2	$n^\beta\,n^\chi\,\mathcal{A}_{\alpha\beta\chi} + 2\,\mathcal{A}_\alpha{}^\beta{}_\beta - n^\beta\,n^\chi\,\mathcal{A}_{\beta\alpha\chi} + 3\,n_\alpha\,n^\beta\,n^\chi\,n^\delta\,\mathcal{A}_{\beta\chi\delta} - 2\,n_\alpha\,n^\beta\,\mathcal{A}_\beta{}^\chi{}_\chi + \mathcal{A}^\beta{}_{\alpha\beta} - n_\alpha\,n^\beta\,\mathcal{A}^\chi{}_{\beta\chi}$	${}^{1^-}\!\mathcal{W}_s^{\parallel t}{}_{\alpha}$
${}^{1^-}\!\mathcal{A}_s^{\perp h}{}_{\alpha}$	StrongGenSet[{}, GenSet[]] -	$n^\beta\,n^\chi\,\mathcal{A}_{\alpha\beta\chi} + n^\beta\,n^\chi\,\mathcal{A}_{\beta\alpha\chi}$	${}^{1^-}\!\mathcal{W}_s^{\perp h}{}_{\alpha}$
${}^{1^-}\!\mathcal{A}_s^{\parallel h}{}_{\alpha}$	StrongGenSet[{},GenSet[]]	$n^\beta\,n^\chi\,\mathcal{A}_{\alpha\beta\chi} - \mathcal{A}_\alpha{}^\beta{}_\beta - n^\beta\,n^\chi\,\mathcal{A}_{\beta\alpha\chi} + n_\alpha\,n^\beta\,\mathcal{A}_\beta{}^\chi{}_\chi + \mathcal{A}^\beta{}_{\alpha\beta} - n_\alpha\,n^\beta\,\mathcal{A}^\chi{}_{\beta\chi}$	${}^{1^-}\!\mathcal{W}_s^{\parallel h}{}_{\alpha}$
${}^{2^+}\!\mathcal{A}_s^{\parallel}{}_{\alpha\beta}$	StrongGenSet[{1,2},GenSet[(1,2)]]	$n^\chi\,\mathcal{A}_{\alpha\beta\chi} + n^\chi\,\mathcal{A}_{\alpha\chi\beta} - 2\,n_\beta\,n^\chi\,n^\delta\,\mathcal{A}_{\alpha\chi\delta} + n^\chi\,\mathcal{A}_{\beta\alpha\chi} - 2\,n_\alpha\,n^\chi\,n^\delta\,\mathcal{A}_{\beta\chi\delta} - n_\beta\,n^\chi\,n^\delta\,\mathcal{A}_{\chi\alpha\delta} - n_\alpha\,n^\chi\,n^\delta\,\mathcal{A}_{\chi\beta\delta} +$ $\eta_{\alpha\beta}\,n^\chi\,n^\delta\,n^\epsilon\,\mathcal{A}_{\chi\delta\epsilon} + 2\,n_\alpha\,n_\beta\,n^\chi\,n^\delta\,n^\epsilon\,\mathcal{A}_{\chi\delta\epsilon} - \frac{2}{3}\eta_{\alpha\beta}\,n^\chi\,\mathcal{A}_\chi{}^\delta{}_\delta + \frac{2}{3}n_\alpha\,n_\beta\,n^\chi\,\mathcal{A}_\chi{}^\delta{}_\delta - \frac{1}{3}\eta_{\alpha\beta}\,n^\chi\,\mathcal{A}^\delta{}_{\chi\delta} + \frac{1}{3}n_\alpha\,n_\beta\,n^\chi\,\mathcal{A}^\delta{}_{\chi\delta}$	${}^{2^+}\!\mathcal{W}_s^{\parallel}{}_{\alpha\beta}$
${}^{2^+}\!\mathcal{A}_s^{\perp}{}_{\alpha\beta}$	StrongGenSet[{1, 2}, GenSet[(1,2)]] -	$\frac{1}{2}n^\chi\,\mathcal{A}_{\alpha\beta\chi} + n^\chi\,\mathcal{A}_{\alpha\chi\beta} - \frac{1}{2}n_\beta\,n^\chi\,n^\delta\,\mathcal{A}_{\alpha\chi\delta} - \frac{1}{2}n^\chi\,\mathcal{A}_{\beta\alpha\chi} - \frac{1}{2}n_\alpha\,n^\chi\,n^\delta\,\mathcal{A}_{\beta\chi\delta} +$ $\frac{1}{2}n_\beta\,n^\chi\,n^\delta\,\mathcal{A}_{\chi\alpha\delta} + \frac{1}{2}n_\alpha\,n^\chi\,n^\delta\,\mathcal{A}_{\chi\beta\delta} + \frac{1}{3}\eta_{\alpha\beta}\,n^\chi\,\mathcal{A}_\chi{}^\delta{}_\delta - \frac{1}{3}n_\alpha\,n_\beta\,n^\chi\,\mathcal{A}_\chi{}^\delta{}_\delta - \frac{1}{3}\eta_{\alpha\beta}\,n^\chi\,\mathcal{A}^\delta{}_{\chi\delta} + \frac{1}{3}n_\alpha\,n_\beta\,n^\chi\,\mathcal{A}^\delta{}_{\chi\delta}$	${}^{2^+}\!\mathcal{W}_s^{\perp}{}_{\alpha\beta}$
${}^{2^-}\!\mathcal{A}_s^{\parallel}{}_{\alpha\beta\chi}$	StrongGenSet[{1, 2}, GenSet[(1,2)]] -	$\frac{1}{3}\mathcal{A}_{\alpha\beta\chi} + \frac{1}{3}n_\chi\,n^\delta\,\mathcal{A}_{\alpha\beta\delta} + \frac{2}{3}\mathcal{A}_{\alpha\chi\beta} - \frac{2}{3}n_\beta\,n^\delta\,\mathcal{A}_{\alpha\chi\delta} - \frac{2}{3}n_\chi\,n^\delta\,\mathcal{A}_{\alpha\delta\beta} + \frac{1}{3}n_\beta\,n^\delta\,\mathcal{A}_{\alpha\delta\chi} + \frac{1}{6}\eta_{\beta\chi}\,n^\delta\,n^\epsilon\,\mathcal{A}_{\alpha\delta\epsilon} + \frac{1}{6}n_\beta\,n_\chi\,n^\delta\,n^\epsilon\,\mathcal{A}_{\alpha\delta\epsilon} - \frac{1}{6}\eta_{\beta\chi}\,\mathcal{A}_\alpha{}^\delta{}_\delta +$ $\frac{1}{6}n_\beta\,n_\chi\,\mathcal{A}_\alpha{}^\delta{}_\delta - \frac{1}{3}\mathcal{A}_{\beta\alpha\chi} + \frac{1}{3}n_\chi\,n^\delta\,\mathcal{A}_{\beta\alpha\delta} - \frac{2}{3}n_\alpha\,n^\delta\,\mathcal{A}_{\beta\chi\delta} + \frac{1}{3}n_\alpha\,n^\delta\,\mathcal{A}_{\beta\delta\chi} + \frac{1}{6}n_\alpha\,n^\delta\,n^\epsilon\,\mathcal{A}_{\beta\delta\epsilon} + \frac{1}{6}n_\alpha\,n_\chi\,n^\delta\,n^\epsilon\,\mathcal{A}_{\beta\delta\epsilon} - \frac{1}{6}n_{\alpha\chi}\,\mathcal{A}_\beta{}^\delta{}_\delta + \frac{1}{6}n_\alpha\,n_\chi\,\mathcal{A}_\beta{}^\delta{}_\delta +$ $\frac{1}{3}n_\beta\,n^\delta\,\mathcal{A}_{\chi\alpha\delta} + \frac{1}{3}n_\alpha\,n^\delta\,\mathcal{A}_{\chi\beta\delta} - \frac{1}{3}\eta_{\alpha\beta}\,n^\delta\,n^\epsilon\,\mathcal{A}_{\chi\delta\epsilon} - \frac{1}{3}n_\alpha\,n_\beta\,n^\delta\,n^\epsilon\,\mathcal{A}_{\chi\delta\epsilon} + \frac{1}{3}\eta_{\alpha\beta}\,\mathcal{A}_\chi{}^\delta{}_\delta - \frac{1}{3}n_\alpha\,n_\beta\,\mathcal{A}_\chi{}^\delta{}_\delta - \frac{1}{6}\eta_{\beta\chi}\,n^\delta\,n^\epsilon\,\mathcal{A}_{\delta\alpha\epsilon} - \frac{1}{6}n_\beta\,n_\chi\,n^\delta\,n^\epsilon\,\mathcal{A}_{\delta\alpha\epsilon} -$ $\frac{1}{6}n_{\alpha\chi}\,n^\delta\,n^\epsilon\,\mathcal{A}_{\delta\beta\epsilon} - \frac{1}{6}n_\alpha\,n_\chi\,n^\delta\,n^\epsilon\,\mathcal{A}_{\delta\beta\epsilon} + \frac{1}{3}\eta_{\alpha\beta}\,n^\delta\,n^\epsilon\,\mathcal{A}_{\delta\chi\epsilon} + \frac{1}{3}n_\alpha\,n_\beta\,n^\delta\,n^\epsilon\,\mathcal{A}_{\delta\chi\epsilon} + \frac{1}{6}n_{\beta\chi}\,n_\alpha\,n^\delta\,\mathcal{A}_\delta{}^\epsilon{}_\epsilon + \frac{1}{6}n_{\alpha\chi}\,n_\beta\,n^\delta\,\mathcal{A}_\delta{}^\epsilon{}_\epsilon - \frac{1}{3}\eta_{\alpha\beta}\,n_\chi\,n^\delta\,\mathcal{A}_\delta{}^\epsilon{}_\epsilon +$ $\frac{1}{6}n_{\beta\chi}\,\mathcal{A}^\delta{}_{\alpha\delta} - \frac{1}{6}n_\beta\,n_\chi\,\mathcal{A}^\delta{}_{\alpha\delta} + \frac{1}{6}n_{\alpha\chi}\,\mathcal{A}^\delta{}_{\beta\delta} - \frac{1}{6}n_\alpha\,n_\chi\,\mathcal{A}^\delta{}_{\beta\delta} - \frac{1}{3}\eta_{\alpha\beta}\,\mathcal{A}^\delta{}_{\chi\delta} + \frac{1}{3}n_\alpha\,n_\beta\,\mathcal{A}^\delta{}_{\chi\delta} - \frac{1}{6}n_{\beta\chi}\,n_\alpha\,n^\delta\,\mathcal{A}^\epsilon{}_{\delta\epsilon} - \frac{1}{6}n_{\alpha\chi}\,n_\beta\,n^\delta\,\mathcal{A}^\epsilon{}_{\delta\epsilon} + \frac{1}{3}\eta_{\alpha\beta}\,n_\chi\,n^\delta\,\mathcal{A}^\epsilon{}_{\delta\epsilon}$	${}^{2^-}\!\mathcal{W}_s^{\parallel}{}_{\alpha\beta\chi}$
${}^{3^-}\!\mathcal{A}_s^{\parallel}{}_{\alpha\beta\chi}$	StrongGenSet[{1, 2, 3}, GenSet[(1,2), (2,3)]]	$\frac{1}{3}\mathcal{A}_{\alpha\beta\chi} - \frac{1}{3}n_\chi\,n^\delta\,\mathcal{A}_{\alpha\beta\delta} + \frac{1}{3}\mathcal{A}_{\alpha\chi\beta} - \frac{1}{3}n_\beta\,n^\delta\,\mathcal{A}_{\alpha\chi\delta} - \frac{1}{3}n_\chi\,n^\delta\,\mathcal{A}_{\alpha\delta\beta} - \frac{1}{3}n_\beta\,n^\delta\,\mathcal{A}_{\alpha\delta\chi} + \frac{2}{15}\eta_{\beta\chi}\,n^\delta\,n^\epsilon\,\mathcal{A}_{\alpha\delta\epsilon} + \frac{8}{15}n_\beta\,n_\chi\,n^\delta\,n^\epsilon\,\mathcal{A}_{\alpha\delta\epsilon} - \frac{2}{15}\eta_{\beta\chi}\,\mathcal{A}_\alpha{}^\delta{}_\delta + \frac{2}{15}n_\beta\,n_\chi\,\mathcal{A}_\alpha{}^\delta{}_\delta +$ $\frac{1}{3}\mathcal{A}_{\beta\alpha\chi} - \frac{1}{3}n_\chi\,n^\delta\,\mathcal{A}_{\beta\alpha\delta} - \frac{1}{3}n_\alpha\,n^\delta\,\mathcal{A}_{\beta\chi\delta} - \frac{1}{3}n_\alpha\,n^\delta\,\mathcal{A}_{\beta\delta\chi} + \frac{2}{15}n_{\alpha\chi}\,n^\delta\,n^\epsilon\,\mathcal{A}_{\beta\delta\epsilon} + \frac{8}{15}n_\alpha\,n_\chi\,n^\delta\,n^\epsilon\,\mathcal{A}_{\beta\delta\epsilon} - \frac{2}{15}n_{\alpha\chi}\,\mathcal{A}_\beta{}^\delta{}_\delta + \frac{2}{15}n_\alpha\,n_\chi\,\mathcal{A}_\beta{}^\delta{}_\delta - \frac{1}{3}n_\beta\,n^\delta\,\mathcal{A}_{\chi\alpha\delta} -$ $\frac{1}{3}n_\alpha\,n^\delta\,\mathcal{A}_{\chi\beta\delta} + \frac{2}{15}\eta_{\alpha\beta}\,n^\delta\,n^\epsilon\,\mathcal{A}_{\chi\delta\epsilon} + \frac{8}{15}n_\alpha\,n_\beta\,n^\delta\,n^\epsilon\,\mathcal{A}_{\chi\delta\epsilon} - \frac{2}{15}\eta_{\alpha\beta}\,\mathcal{A}_\chi{}^\delta{}_\delta + \frac{2}{15}n_\alpha\,n_\beta\,\mathcal{A}_\chi{}^\delta{}_\delta + \frac{1}{15}\eta_{\beta\chi}\,n^\delta\,n^\epsilon\,\mathcal{A}_{\delta\alpha\epsilon} + \frac{4}{15}n_\beta\,n_\chi\,n^\delta\,n^\epsilon\,\mathcal{A}_{\delta\alpha\epsilon} + \frac{1}{15}n_{\alpha\chi}\,n^\delta\,n^\epsilon\,\mathcal{A}_{\delta\beta\epsilon} +$ $\frac{4}{15}n_\alpha\,n_\chi\,n^\delta\,n^\epsilon\,\mathcal{A}_{\delta\beta\epsilon} + \frac{1}{15}\eta_{\alpha\beta}\,n^\delta\,n^\epsilon\,\mathcal{A}_{\delta\chi\epsilon} + \frac{4}{15}n_\alpha\,n_\beta\,n^\delta\,n^\epsilon\,\mathcal{A}_{\delta\chi\epsilon} - \frac{1}{5}n_{\beta\chi}\,n_\alpha\,n^\delta\,n^\epsilon\,n^\phi\,\mathcal{A}_{\delta\epsilon\phi} - \frac{1}{5}n_{\alpha\chi}\,n_\beta\,n^\delta\,n^\epsilon\,n^\phi\,\mathcal{A}_{\delta\epsilon\phi} - \frac{1}{5}\eta_{\alpha\beta}\,n_\chi\,n^\delta\,n^\epsilon\,n^\phi\,\mathcal{A}_{\delta\epsilon\phi} -$ $\frac{2}{5}n_\alpha\,n_\beta\,n_\chi\,n^\delta\,n^\epsilon\,n^\phi\,\mathcal{A}_{\delta\epsilon\phi} + \frac{2}{15}n_{\beta\chi}\,n_\alpha\,n^\delta\,\mathcal{A}_\delta{}^\epsilon{}_\epsilon + \frac{2}{15}n_{\alpha\chi}\,n_\beta\,n^\delta\,\mathcal{A}_\delta{}^\epsilon{}_\epsilon + \frac{2}{15}\eta_{\alpha\beta}\,n_\chi\,n^\delta\,\mathcal{A}_\delta{}^\epsilon{}_\epsilon - \frac{2}{5}n_\alpha\,n_\beta\,n_\chi\,n^\delta\,\mathcal{A}_\delta{}^\epsilon{}_\epsilon - \frac{1}{15}n_{\beta\chi}\,\mathcal{A}^\delta{}_{\alpha\delta} + \frac{1}{15}n_\beta\,n_\chi\,\mathcal{A}^\delta{}_{\alpha\delta} -$ $\frac{1}{15}n_{\alpha\chi}\,\mathcal{A}^\delta{}_{\beta\delta} + \frac{1}{15}n_\alpha\,n_\chi\,\mathcal{A}^\delta{}_{\beta\delta} - \frac{1}{15}\eta_{\alpha\beta}\,\mathcal{A}^\delta{}_{\chi\delta} + \frac{1}{15}n_\alpha\,n_\beta\,\mathcal{A}^\delta{}_{\chi\delta} + \frac{1}{15}n_{\beta\chi}\,n_\alpha\,n^\delta\,\mathcal{A}^\epsilon{}_{\delta\epsilon} + \frac{1}{15}n_{\alpha\chi}\,n_\beta\,n^\delta\,\mathcal{A}^\epsilon{}_{\delta\epsilon} + \frac{1}{15}\eta_{\alpha\beta}\,n_\chi\,n^\delta\,\mathcal{A}^\epsilon{}_{\delta\epsilon} - \frac{1}{5}n_\alpha\,n_\beta\,n_\chi\,n^\delta\,\mathcal{A}^\epsilon{}_{\delta\epsilon}$	${}^{3^-}\!\mathcal{W}_s^{\parallel}{}_{\alpha\beta\chi}$