$\Delta^{\#1}_{3^-}{}^{\alpha\beta\chi}$	
$\Delta^{\#1}_{3^-}{}^{\dagger\,\alpha\beta\chi}$	$-\frac{2}{a_0}$

$\Gamma^{\#1}_{3^-}{}^{\alpha\beta\chi}$	
$\Gamma^{\#1}_{3^-}{}^{\dagger\,\alpha\beta\chi}$	$-\frac{a_0}{2}$

	$\Gamma^{\#1}_{1^+}{}^{\alpha\beta}$	$\Gamma^{\#2}_{1^+}{}^{\alpha\beta}$	$\Gamma^{\#3}_{1^+}{}^{\alpha\beta}$	$\Gamma^{\#1}_{1^-}{}^{\alpha}$	$\Gamma^{\#2}_{1^-}{}^{\alpha}$	$\Gamma^{\#3}_{1^-}{}^{\alpha}$	$\Gamma^{\#4}_{1^-}{}^{\alpha}$	$\Gamma^{\#5}_{1^-}{}^{\alpha}$	$\Gamma^{\#6}_{1^-}{}^{\alpha}$	$h^{\#1}_{1^-}{}^{\alpha}$
$\Gamma^{\#1}_{1^+}{}^{\dagger\,\alpha\beta}$	$-\frac{a_0}{4}$	$-\frac{a_0}{2\sqrt{2}}$	0	0	0	0	0	0	0	0
$\Gamma^{\#2}_{1^+}{}^{\dagger\,\alpha\beta}$	$-\frac{a_0}{2\sqrt{2}}$	0	0	0	0	0	0	0	0	0
$\Gamma^{\#3}_{1^+}{}^{\dagger\,\alpha\beta}$	0	0	$\frac{a_0}{4}$	0	0	0	0	0	0	0
$\Gamma^{\#1}_{1^-}{}^{\dagger\,\alpha}$	0	0	0	$-\frac{a_0}{4}$	$\frac{a_0}{2\sqrt{2}}$	0	0	0	0	0
$\Gamma^{\#2}_{1^-}{}^{\dagger\,\alpha}$	0	0	0	$\frac{a_0}{2\sqrt{2}}$	0	0	0	0	0	0
$\Gamma^{\#3}_{1^-}{}^{\dagger\,\alpha}$	0	0	0	0	0	$-\frac{a_0}{3}$	$\frac{\sqrt{5}\,a_0}{6}$	$-\frac{a_0}{6\sqrt{2}}$	$-\frac{a_0}{6}$	0
$\Gamma^{\#4}_{1^-}{}^{\dagger\,\alpha}$	0	0	0	0	0	$\frac{\sqrt{5}\,a_0}{6}$	$\frac{a_0}{3}$	$-\frac{1}{6}\sqrt{\frac{5}{2}}\,a_0$	$-\frac{\sqrt{5}\,a_0}{6}$	0
$\Gamma^{\#5}_{1^-}{}^{\dagger\,\alpha}$	0	0	0	0	0	$-\frac{a_0}{6\sqrt{2}}$	$-\frac{1}{6}\sqrt{\frac{5}{2}}\,a_0$	$\frac{a_0}{3}$	$\frac{a_0}{6\sqrt{2}}$	0
$\Gamma^{\#6}_{1^-}{}^{\dagger\,\alpha}$	0	0	0	0	0	$-\frac{a_0}{6}$	$-\frac{\sqrt{5}\,a_0}{6}$	$\frac{a_0}{6\sqrt{2}}$	$\frac{5\,a_0}{12}$	0
$h^{\#1}_{1^-}{}^{\dagger\,\alpha}$	0	0	0	0	0	0	0	0	0	0

	$\Delta^{\#1}_{0^+}$	$\Delta^{\#2}_{0^+}$	$\Delta^{\#3}_{0^+}$	$\Delta^{\#4}_{0^+}$	$\mathcal{T}^{\#1}_{0^+}$	$\mathcal{T}^{\#2}_{0^+}$	$\Delta^{\#1}_{0^-}$
$\Delta^{\#1}_{0^+}{}^{\dagger}$	$-\frac{2}{a_0}$	0	0	0	0	0	0
$\Delta^{\#2}_{0^+}{}^{\dagger}$	0	$-\frac{3}{4\,a_0}$	$\frac{5}{4\,a_0}$	$-\frac{1}{2\sqrt{2}\,a_0}$	0	0	0
$\Delta^{\#3}_{0^+}{}^{\dagger}$	0	$\frac{5}{4\,a_0}$	$-\frac{3}{4\,a_0}$	$-\frac{1}{2\sqrt{2}\,a_0}$	0	0	0
$\Delta^{\#4}_{0^+}{}^{\dagger}$	0	$-\frac{1}{2\sqrt{2}\,a_0}$	$-\frac{1}{2\sqrt{2}\,a_0}$	$\frac{1}{2\,a_0}$	0	0	0
$\mathcal{T}^{\#1}_{0^+}{}^{\dagger}$	0	0	0	0	$\frac{4}{a_0\,k^2}$	0	0
$\mathcal{T}^{\#2}_{0^+}{}^{\dagger}$	0	0	0	0	0	0	0
$\Delta^{\#1}_{0^-}{}^{\dagger}$	0	0	0	0	0	0	$-\frac{2}{a_0}$

Source constraints	#
SO(3) irreps	1
$\mathcal{T}^{\#2}_{0^+} == 0$	1
$\Delta^{\#3}_{0^+} + 2\,\Delta^{\#4}_{0^+} + 3\,\Delta^{\#2}_{0^+} == 0$	3
$\mathcal{T}^{\#1\,\alpha}_{1^-} == 0$	3
$2\,\Delta^{\#6\,\alpha}_{1^-} + \Delta^{\#4\,\alpha}_{1^-} + 2\,\Delta^{\#5\,\alpha}_{1^-} + \Delta^{\#3\,\alpha}_{1^-} == 0$	3
Total #:	8

	$\Gamma^{\#1}_{2^+}{}^{\alpha\beta}$	$\Gamma^{\#2}_{2^+}{}^{\alpha\beta}$	$\Gamma^{\#3}_{2^+}{}^{\alpha\beta}$	$h^{\#1}_{2^+}{}^{\alpha\beta}$	$\Gamma^{\#1}_{2^-}{}^{\alpha\beta\chi}$	$\Gamma^{\#2}_{2^-}{}^{\alpha\beta\chi}$
$\Gamma^{\#1}_{2^+}{}^{\dagger\,\alpha\beta}$	$\frac{a_0}{4}$	0	0	0	0	0
$\Gamma^{\#2}_{2^+}{}^{\dagger\,\alpha\beta}$	0	$-\frac{a_0}{2}$	0	0	0	0
$\Gamma^{\#3}_{2^+}{}^{\dagger\,\alpha\beta}$	0	0	$\frac{a_0}{4}$	0	0	0
$h^{\#1}_{2^+}{}^{\dagger\,\alpha\beta}$	0	0	0	$-\frac{a_0\,k^2}{8}$	0	0
$\Gamma^{\#1}_{2^-}{}^{\dagger\,\alpha\beta\chi}$	0	0	0	0	$\frac{a_0}{4}$	0
$\Gamma^{\#2}_{2^-}{}^{\dagger\,\alpha\beta\chi}$	0	0	0	0	0	$\frac{a_0}{4}$

	$\Delta^{\#1}_{2^+}{}^{\alpha\beta}$	$\Delta^{\#2}_{2^+}{}^{\alpha\beta}$	$\Delta^{\#3}_{2^+}{}^{\alpha\beta}$	$\mathcal{T}^{\#1}_{2^+}{}^{\alpha\beta}$	$\Delta^{\#1}_{2^-}{}^{\alpha\beta\chi}$	$\Delta^{\#2}_{2^-}{}^{\alpha\beta\chi}$
$\Delta^{\#1}_{2^+}{}^{\dagger\,\alpha\beta}$	$\frac{4}{a_0}$	0	0	0	0	0
$\Delta^{\#2}_{2^+}{}^{\dagger\,\alpha\beta}$	0	$-\frac{2}{a_0}$	0	0	0	0
$\Delta^{\#3}_{2^+}{}^{\dagger\,\alpha\beta}$	0	0	$\frac{4}{a_0}$	0	0	0
$\mathcal{T}^{\#1}_{2^+}{}^{\dagger\,\alpha\beta}$	0	0	0	$-\frac{8}{a_0\,k^2}$	0	0
$\Delta^{\#1}_{2^-}{}^{\dagger\,\alpha\beta\chi}$	0	0	0	0	$\frac{4}{a_0}$	0
$\Delta^{\#2}_{2^-}{}^{\dagger\,\alpha\beta\chi}$	0	0	0	0	0	$\frac{4}{a_0}$

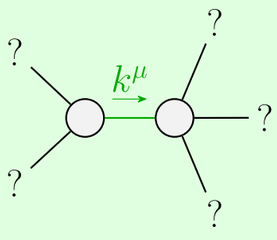
	$\Gamma^{\#1}_{0^+}$	$\Gamma^{\#2}_{0^+}$	$\Gamma^{\#3}_{0^+}$	$\Gamma^{\#4}_{0^+}$	$h^{\#1}_{0^+}$	$h^{\#2}_{0^+}$	$\Gamma^{\#1}_{0^-}$
$\Gamma^{\#1}_{0^+}{}^{\dagger}$	$-\frac{a_0}{2}$	0	0	0	0	0	0
$\Gamma^{\#2}_{0^+}{}^{\dagger}$	0	0	$\frac{a_0}{2}$	$-\frac{a_0}{2\sqrt{2}}$	0	0	0
$\Gamma^{\#3}_{0^+}{}^{\dagger}$	0	$\frac{a_0}{2}$	0	$-\frac{a_0}{2\sqrt{2}}$	0	0	0
$\Gamma^{\#4}_{0^+}{}^{\dagger}$	0	$-\frac{a_0}{2\sqrt{2}}$	$-\frac{a_0}{2\sqrt{2}}$	$\frac{a_0}{2}$	0	0	0
$h^{\#1}_{0^+}{}^{\dagger}$	0	0	0	0	$\frac{a_0\,k^2}{4}$	0	0
$h^{\#2}_{0^+}{}^{\dagger}$	0	0	0	0	0	0	0
$\Gamma^{\#1}_{0^-}{}^{\dagger}$	0	0	0	0	0	0	$-\frac{a_0}{2}$

	$\Delta^{\#1}_{1^+}{}^{\alpha\beta}$	$\Delta^{\#2}_{1^+}{}^{\alpha\beta}$	$\Delta^{\#3}_{1^+}{}^{\alpha\beta}$	$\Delta^{\#1}_{1^-}{}^{\alpha}$	$\Delta^{\#2}_{1^-}{}^{\alpha}$	$\Delta^{\#3}_{1^-}{}^{\alpha}$	$\Delta^{\#4}_{1^-}{}^{\alpha}$	$\Delta^{\#5}_{1^-}{}^{\alpha}$	$\Delta^{\#6}_{1^-}{}^{\alpha}$	$\mathcal{T}^{\#1}_{1^-}{}^{\alpha}$
$\Delta^{\#1}_{1^+}{}^{\dagger\,\alpha\beta}$	0	$-\frac{2\sqrt{2}}{a_0}$	0	0	0	0	0	0	0	0
$\Delta^{\#2}_{1^+}{}^{\dagger\,\alpha\beta}$	$-\frac{2\sqrt{2}}{a_0}$	$\frac{2}{a_0}$	0	0	0	0	0	0	0	0
$\Delta^{\#3}_{1^+}{}^{\dagger\,\alpha\beta}$	0	0	$\frac{4}{a_0}$	0	0	0	0	0	0	0
$\Delta^{\#1}_{1^-}{}^{\dagger\,\alpha}$	0	0	0	0	$\frac{2\sqrt{2}}{a_0}$	0	0	0	0	0
$\Delta^{\#2}_{1^-}{}^{\dagger\,\alpha}$	0	0	0	$\frac{2\sqrt{2}}{a_0}$	$\frac{2}{a_0}$	0	0	0	0	0
$\Delta^{\#3}_{1^-}{}^{\dagger\,\alpha}$	0	0	0	0	0	$-\frac{19}{12\,a_0}$	$\frac{5\sqrt{5}}{12\,a_0}$	$-\frac{1}{6\sqrt{2}\,a_0}$	$-\frac{1}{6\,a_0}$	0
$\Delta^{\#4}_{1^-}{}^{\dagger\,\alpha}$	0	0	0	0	0	$\frac{5\sqrt{5}}{12\,a_0}$	$\frac{1}{12\,a_0}$	$\frac{\sqrt{5}}{6\,a_0}$	$-\frac{\sqrt{5}}{6\,a_0}$	0
$\Delta^{\#5}_{1^-}{}^{\dagger\,\alpha}$	0	0	0	0	0	$-\frac{1}{6\sqrt{2}\,a_0}$	$-\frac{\sqrt{5}}{6\,a_0}$	$\frac{17}{6\,a_0}$	$-\frac{7}{3\sqrt{2}\,a_0}$	0
$\Delta^{\#6}_{1^-}{}^{\dagger\,\alpha}$	0	0	0	0	0	$-\frac{1}{6\,a_0}$	$-\frac{\sqrt{5}}{6\,a_0}$	$-\frac{7}{3\sqrt{2}\,a_0}$	$\frac{5}{3\,a_0}$	0
$\mathcal{T}^{\#1}_{1^-}{}^{\dagger\,\alpha}$	0	0	0	0	0	0	0	0	0	0

Lagrangian density

$$-\tfrac{1}{2}\,a_0\,\Gamma^{\alpha\beta\chi}\,\Gamma_{\beta\chi\alpha} + \tfrac{1}{2}\,a_0\,\Gamma^{\alpha}{}_{\alpha}{}^{\beta}\,\Gamma^{\chi}{}_{\beta\chi} -$$
$$\tfrac{1}{2}\,a_0\,\Gamma^{\alpha\beta\chi}\,\partial_\beta h_{\alpha\chi} - \tfrac{1}{4}\,a_0\,\Gamma^{\alpha}{}_{\alpha}{}^{\beta}\,\partial_\beta h^{\chi}{}_{\chi} + \tfrac{1}{4}\,a_0\,\Gamma^{\alpha\beta}{}_{\alpha}\,\partial_\beta h^{\chi}{}_{\chi} -$$
$$\tfrac{1}{4}\,a_0\,h^{\chi}{}_{\chi}\,\partial_\beta\Gamma^{\alpha}{}_{\alpha}{}^{\beta} + \tfrac{1}{4}\,a_0\,h^{\chi}{}_{\chi}\,\partial_\beta\Gamma^{\alpha\beta}{}_{\alpha} - \tfrac{1}{2}\,a_0\,h_{\alpha\chi}\,\partial_\beta\Gamma^{\alpha\beta\chi} +$$
$$\tfrac{1}{2}\,a_0\,h^{\alpha\beta}\,\partial_\beta\partial_\alpha h^{\chi}{}_{\chi} - \tfrac{1}{8}\,a_0\,\partial_\beta h^{\chi}{}_{\chi}\,\partial^\beta h^{\alpha}{}_{\alpha} + \tfrac{1}{2}\,a_0\,\Gamma^{\alpha}{}_{\alpha}{}^{\beta}\,\partial_\chi h_\beta{}^{\chi} -$$
$$\tfrac{1}{2}\,a_0\,\partial_\alpha h^{\alpha\beta}\,\partial_\chi h_\beta{}^{\chi} + \tfrac{1}{2}\,a_0\,\partial^\beta h^{\alpha}{}_{\alpha}\,\partial_\chi h_\beta{}^{\chi} - a_0\,h^{\alpha\beta}\,\partial_\chi\partial_\beta h_\alpha{}^{\chi} +$$
$$\tfrac{1}{4}\,a_0\,h^{\alpha}{}_{\alpha}\,\partial_\chi\partial_\beta h^{\beta\chi} + \tfrac{1}{2}\,a_0\,h^{\alpha\beta}\,\partial_\chi\partial^\chi h_{\alpha\beta} - \tfrac{1}{4}\,a_0\,h^{\alpha}{}_{\alpha}\,\partial_\chi\partial^\chi h^{\beta}{}_{\beta} -$$
$$\tfrac{1}{4}\,a_0\,\partial_\beta h_{\alpha\chi}\,\partial^\chi h^{\alpha\beta} + \tfrac{3}{8}\,a_0\,\partial_\chi h_{\alpha\beta}\,\partial^\chi h^{\alpha\beta} + \tfrac{1}{2}\,a_0\,h_{\beta\chi}\,\partial^\chi\Gamma^{\alpha}{}_{\alpha}{}^{\beta}$$

Added source term: $h^{\alpha\beta}\,\mathcal{T}_{\alpha\beta} + \Gamma^{\alpha\beta\chi}\,\Delta_{\alpha\beta\chi}$



Quadratic pole

Pole residue:	$-\frac{1}{a_0} > 0$
Polarisations:	2

Unitarity conditions
$a_0 < 0$

(No massive particles)