

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

	$\Gamma_{2^+\alpha\beta}^{\#1}$	$\Gamma_{2^+\alpha\beta}^{\#2}$	$\Gamma_{2^+\alpha\beta}^{\#3}$	$h_{2^+\alpha\beta}^{\#1}$	$\Gamma_{2^+\alpha\beta\chi}^{\#1}$	$\Gamma_{2^+\alpha\beta\chi}^{\#2}$
$\Gamma_{2^+}^{\#1} \dagger^{\alpha\beta}$	$\frac{a_0}{4}$	0	0	0	0	0
$\Gamma_{2^+}^{\#2} \dagger^{\alpha\beta}$	0	$-\frac{a_0}{2}$	0	0	0	0
$\Gamma_{2^+}^{\#3} \dagger^{\alpha\beta}$	0	0	$\frac{a_0}{4}$	0	0	0
$h_{2^+}^{\#1} \dagger^{\alpha\beta}$	0	0	0	$-\frac{a_0 k^2}{8}$	0	0
$\Gamma_{2^+}^{\#1} \dagger^{\alpha\beta\chi}$	0	0	0	0	$\frac{a_0}{4}$	0
$\Gamma_{2^+}^{\#2} \dagger^{\alpha\beta\chi}$	0	0	0	0	0	$\frac{a_0}{4}$

### Lagrangian density

$$\begin{aligned}
 &-\frac{1}{2} a_0 \Gamma^{\alpha\beta\chi}_{\phantom{\alpha\beta\chi}2^+} \Gamma_{\beta\chi\alpha} + \frac{1}{2} a_0 \Gamma^{\alpha\phantom{\alpha\beta\chi}\beta}_{\phantom{\alpha\beta\chi}2^+} \Gamma^{\chi}_{\phantom{\alpha\beta\chi}\beta\chi} - \\
 &\frac{1}{2} a_0 \Gamma^{\alpha\beta\chi}_{\phantom{\alpha\beta\chi}2^+} \partial_\beta h_{\alpha\chi} - \frac{1}{4} a_0 \Gamma^{\alpha\phantom{\alpha\beta\chi}\beta}_{\phantom{\alpha\beta\chi}2^+} \partial_\beta h^{\chi}_{\phantom{\alpha\beta\chi}\chi} + \frac{1}{4} a_0 \Gamma^{\alpha\beta}_{\phantom{\alpha\beta\chi}2^+} \partial_\beta h^{\chi}_{\phantom{\alpha\beta\chi}\chi} - \\
 &\frac{1}{4} a_0 h^{\chi}_{\phantom{\alpha\beta\chi}\chi} \partial_\beta \Gamma^{\alpha\phantom{\alpha\beta\chi}\beta}_{\phantom{\alpha\beta\chi}2^+} + \frac{1}{4} a_0 h^{\chi}_{\phantom{\alpha\beta\chi}\chi} \partial_\beta \Gamma^{\alpha\beta}_{\phantom{\alpha\beta\chi}2^+} - \frac{1}{2} a_0 h_{\alpha\chi} \partial_\beta \Gamma^{\alpha\beta\chi}_{\phantom{\alpha\beta\chi}2^+} + \\
 &\frac{1}{2} a_0 h^{\alpha\beta}_{\phantom{\alpha\beta\chi}2^+} \partial_\beta \partial_\alpha h^{\chi}_{\phantom{\alpha\beta\chi}\chi} - \frac{1}{8} a_0 \partial_\beta h^{\chi}_{\phantom{\alpha\beta\chi}\chi} \partial^\beta h^{\alpha}_{\phantom{\alpha\beta\chi}\alpha} + \frac{1}{2} a_0 \Gamma^{\alpha\phantom{\alpha\beta\chi}\beta}_{\phantom{\alpha\beta\chi}2^+} \partial_\chi h^{\chi}_{\phantom{\alpha\beta\chi}\beta} - \\
 &\frac{1}{2} a_0 \partial_\alpha h^{\alpha\beta}_{\phantom{\alpha\beta\chi}2^+} \partial_\chi h^{\chi}_{\phantom{\alpha\beta\chi}\beta} + \frac{1}{2} a_0 \partial^\beta h^{\alpha}_{\phantom{\alpha\beta\chi}\alpha} \partial_\chi h^{\chi}_{\phantom{\alpha\beta\chi}\beta} - a_0 h^{\alpha\beta}_{\phantom{\alpha\beta\chi}2^+} \partial_\chi \partial_\beta h^{\chi}_{\phantom{\alpha\beta\chi}\alpha} + \\
 &\frac{1}{4} a_0 h^{\alpha}_{\phantom{\alpha\beta\chi}\alpha} \partial_\chi \partial_\beta h^{\beta\chi}_{\phantom{\alpha\beta\chi}2^+} + \frac{1}{2} a_0 h^{\alpha\beta}_{\phantom{\alpha\beta\chi}2^+} \partial_\chi \partial^\chi h_{\alpha\beta} - \frac{1}{4} a_0 h^{\alpha}_{\phantom{\alpha\beta\chi}\alpha} \partial_\chi \partial^\chi h^{\beta}_{\phantom{\alpha\beta\chi}\beta} - \\
 &\frac{1}{4} a_0 \partial_\beta h_{\alpha\chi} \partial^\chi h^{\alpha\beta}_{\phantom{\alpha\beta\chi}2^+} + \frac{3}{8} a_0 \partial_\chi h_{\alpha\beta} \partial^\chi h^{\alpha\beta}_{\phantom{\alpha\beta\chi}2^+} + \frac{1}{2} a_0 h_{\beta\chi} \partial^\chi \Gamma^{\alpha\phantom{\alpha\beta\chi}\beta}_{\phantom{\alpha\beta\chi}2^+}
 \end{aligned}$$

Added source term:  $\left| h^{\alpha\beta} \mathcal{T}_{\alpha\beta} + \Gamma^{\alpha\beta\chi} \Delta_{\alpha\beta\chi} \right.$

	$\Gamma_{0^+}^{\#1}$	$\Gamma_{0^+}^{\#2}$	$\Gamma_{0^+}^{\#3}$	$\Gamma_{0^+}^{\#4}$	$h_{0^+}^{\#1}$	$h_{0^+}^{\#2}$	$\Gamma_{0^+}^{\#1}$
$\Gamma_{0^+}^{\#1} \dagger$	$-\frac{a_0}{2}$	0	0	0	0	0	0
$\Gamma_{0^+}^{\#2} \dagger$	0	0	$\frac{a_0}{2}$	$-\frac{a_0}{2\sqrt{2}}$	0	0	0
$\Gamma_{0^+}^{\#3} \dagger$	0	$\frac{a_0}{2}$	0	$-\frac{a_0}{2\sqrt{2}}$	0	0	0
$\Gamma_{0^+}^{\#4} \dagger$	0	$-\frac{a_0}{2\sqrt{2}}$	$-\frac{a_0}{2\sqrt{2}}$	$\frac{a_0}{2}$	0	0	0
$h_{0^+}^{\#1} \dagger$	0	0	0	0	$\frac{a_0 k^2}{4}$	0	0
$h_{0^+}^{\#2} \dagger$	0	0	0	0	0	0	0
$\Gamma_{0^+}^{\#1} \dagger$	0	0	0	0	0	0	$-\frac{a_0}{2}$

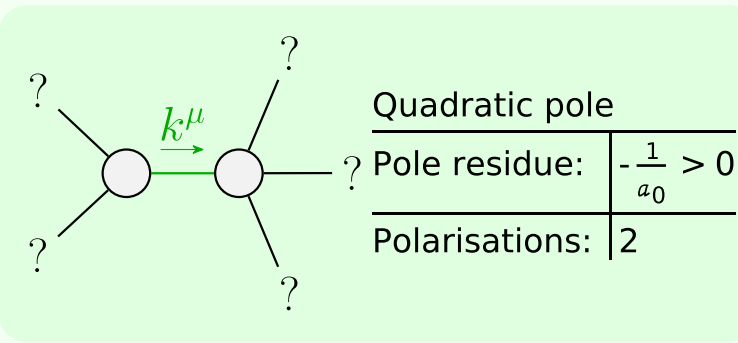
	$\Delta_{1^+}^{\#1}$	$\Delta_{1^+}^{\#2}$	$\Delta_{1^+}^{\#3}$	$\mathcal{T}_{1^+}^{\#1}$	$\Delta_{1^+}^{\#6}$	$\Delta_{1^+}^{\#5}$	$\Delta_{1^+}^{\#4}$	$\Delta_{1^+}^{\#3}$	$\Delta_{1^+}^{\#2}$	$\Delta_{1^+}^{\#1}$
$\Delta_{1^+}^{\#1} \dagger^{\alpha\beta}$	0	0	0	0	0	0	0	0	0	0
$\Delta_{1^+}^{\#2} \dagger^{\alpha\beta}$	0	0	0	0	0	0	0	0	0	0
$\Delta_{1^+}^{\#3} \dagger^{\alpha\beta}$	0	0	0	0	0	0	0	0	0	0
$\Delta_{1^+}^{\#1} \dagger^\alpha$	0	$\frac{2\sqrt{2}}{a_0}$	0	0	0	0	0	0	0	0
$\Delta_{1^+}^{\#2} \dagger^\alpha$	0	0	0	0	0	0	0	0	0	0
$\Delta_{1^+}^{\#3} \dagger^\alpha$	0	0	0	0	0	0	0	0	0	0
$\Delta_{1^+}^{\#4} \dagger^\alpha$	0	0	0	0	0	0	0	0	0	0
$\Delta_{1^+}^{\#5} \dagger^\alpha$	0	0	0	0	0	0	0	0	0	0
$\Delta_{1^+}^{\#6} \dagger^\alpha$	0	0	0	0	0	0	0	0	0	0
$\mathcal{T}_{1^+}^{\#1} \dagger^\alpha$	0	0	0	0	0	0	0	0	0	0

	$\Gamma_{1^+\alpha\beta}^{\#1}$	$\Gamma_{1^+\alpha\beta}^{\#2}$	$\Gamma_{1^+\alpha\beta}^{\#3}$	$\Gamma_{1^-\alpha}^{\#1}$	$\Gamma_{1^-\alpha}^{\#2}$	$\Gamma_{1^-\alpha}^{\#3}$	$\Gamma_{1^-\alpha}^{\#4}$	$\Gamma_{1^-\alpha}^{\#5}$	$\Gamma_{1^-\alpha}^{\#6}$	$h_{1^-\alpha}^{\#1}$
$\Gamma_{1^+}^{\#1} \dagger^{\alpha\beta}$	$-\frac{a_0}{4}$	$-\frac{a_0}{2\sqrt{2}}$	0	0	0	0	0	0	0	0
$\Gamma_{1^+}^{\#2} \dagger^{\alpha\beta}$	$-\frac{a_0}{2\sqrt{2}}$	0	0	0	0	0	0	0	0	0
$\Gamma_{1^+}^{\#3} \dagger^{\alpha\beta}$	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
$\Gamma_{1^+}^{\#2} \dagger^\alpha$	0	0	0	$\frac{a_0}{2\sqrt{2}}$	0	0	0	0	0	0
$\Gamma_{1^+}^{\#3} \dagger^\alpha$	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
$\Gamma_{1^+}^{\#4} \dagger^\alpha$	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
$\Gamma_{1^+}^{\#5} \dagger^\alpha$	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
$\Gamma_{1^+}^{\#6} \dagger^\alpha$	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

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

### Source constraints

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



$$a_0 < 0$$

Unitarity conditions

(No massive particles)