

$\Gamma_{1+}^{\#1} + \alpha\beta$	$\Gamma_{1+}^{\#2} + \alpha\beta$	$\Gamma_{1+}^{\#3} + \alpha\beta$	$\Gamma_{1-}^{\#1} + \alpha$	$\Gamma_{1-}^{\#2} + \alpha$	$\Gamma_{1-}^{\#3} + \alpha$	$\Gamma_{1-}^{\#4} + \alpha$	$\Gamma_{1-}^{\#5} + \alpha$	$\Gamma_{1-}^{\#6} + \alpha$	$h_{1-}^{\#1} + \alpha$
$-\frac{a_0}{4}$	$-\frac{a_0}{2\sqrt{2}}$	0	0	0	0	0	0	0	0
$\Gamma_{1+}^{\#2} + \alpha\beta$	$-\frac{a_0}{2\sqrt{2}}$	0	0	0	0	0	0	0	0
$\Gamma_{1+}^{\#3} + \alpha\beta$	0	$\frac{a_0}{4}$	0	0	0	0	0	0	0
$\Gamma_{1-}^{\#1} + \alpha$	0	0	0	0	$\frac{\sqrt{5}a_0}{6}$	$-\frac{a_0}{6\sqrt{2}}$	$-\frac{a_0}{6}$	$\frac{i a_0 k}{4\sqrt{6}}$	0
$\Gamma_{1-}^{\#2} + \alpha$	0	0	$\frac{a_0}{2\sqrt{2}}$	0	0	0	0	0	0
$\Gamma_{1-}^{\#3} + \alpha$	0	0	0	0	$-\frac{a_0}{3}$	$\frac{\sqrt{5}a_0}{6}$	$-\frac{a_0}{6\sqrt{2}}$	$-\frac{a_0}{6}$	$\frac{i a_0 k}{4\sqrt{6}}$
$\Gamma_{1-}^{\#4} + \alpha$	0	0	0	0	$\frac{\sqrt{5}a_0}{6}$	$-\frac{a_0}{3}$	$-\frac{1}{6}\sqrt{\frac{5}{2}}a_0$	$-\frac{1}{6}\sqrt{\frac{5}{2}}a_0$	$-\frac{1}{4}i\sqrt{\frac{5}{2}}a_0k$
$\Gamma_{1-}^{\#5} + \alpha$	0	0	0	0	$-\frac{a_0}{6\sqrt{2}}$	$\frac{a_0}{3}$	$\frac{a_0}{6\sqrt{2}}$	$\frac{a_0}{12}$	$\frac{i a_0 k}{4\sqrt{6}}$
$\Gamma_{1-}^{\#6} + \alpha$	0	0	0	0	$-\frac{a_0}{6}$	$-\frac{\sqrt{5}a_0}{6}$	$\frac{a_0}{6\sqrt{2}}$	$\frac{5a_0}{12}$	$\frac{i a_0 k}{4\sqrt{6}}$
$h_{1-}^{\#1} + \alpha$	0	0	0	0	$\frac{i a_0 k}{4\sqrt{6}}$	$-\frac{i a_0 k}{4\sqrt{3}}$	$-\frac{i a_0 k}{4\sqrt{6}}$	$-\frac{i a_0 k}{4\sqrt{6}}$	0

$\Gamma_{0+}^{\#1} +$	$\Gamma_{0+}^{\#2} +$	$\Gamma_{0+}^{\#3} +$	$\Gamma_{0+}^{\#4} +$	$h_{0+}^{\#1} +$	$h_{0+}^{\#2} +$	$\Gamma_{0-}^{\#1} +$
$-\frac{a_0}{2}$	0	0	0	$-\frac{i a_0 k}{2\sqrt{2}}$	0	0
$\Gamma_{0+}^{\#2} +$	0	$\frac{a_0}{2}$	$-\frac{a_0}{2\sqrt{2}}$	0	0	0
$\Gamma_{0+}^{\#3} +$	0	0	$-\frac{a_0}{2\sqrt{2}}$	$\frac{a_0}{4\sqrt{3}}$	$-\frac{a_0}{4\sqrt{6}}$	0
$\Gamma_{0+}^{\#4} +$	0	$\frac{a_0}{2}$	$-\frac{a_0}{2\sqrt{2}}$	$\frac{a_0}{4\sqrt{6}}$	$-\frac{i a_0 k}{4\sqrt{2}}$	0
$h_{0+}^{\#1} +$	$\frac{i a_0 k}{2\sqrt{2}}$	0	$-\frac{i a_0 k}{4\sqrt{3}}$	0	0	0
$h_{0+}^{\#2} +$	0	0	$\frac{i a_0 k}{4\sqrt{6}}$	0	0	0
$\Gamma_{0-}^{\#1} +$	0	0	0	0	0	$-\frac{a_0}{2}$

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

$\Delta_{0+}^{\#1} +$	$\Delta_{0+}^{\#2} +$	$\Delta_{0+}^{\#3} +$	$\Delta_{0+}^{\#4} +$	$\mathcal{T}_{0+}^{\#1} +$	$\mathcal{T}_{0+}^{\#2} +$	$\Delta_{0-}^{\#1} +$
0	$\frac{4\sqrt{6}}{16a_0+3a_0k^2}$	$-\frac{4\sqrt{\frac{2}{3}}}{16a_0+3a_0k^2}$	$-\frac{8}{\sqrt{3}(16a_0+3a_0k^2)}$	$-\frac{2i\sqrt{2}}{a_0k}$	$-\frac{2i\sqrt{6}k}{16a_0+3a_0k^2}$	0
$\Delta_{0+}^{\#2} +$	$\frac{4\sqrt{6}}{16a_0+3a_0k^2}$	$-\frac{144}{a_0(16+3k^2)^2}$	$-\frac{8\sqrt{2}(10+3k^2)}{a_0(16+3k^2)^2}$	$-\frac{8i\sqrt{3}}{16a_0k+3a_0k^3}$	$\frac{72ik}{a_0(16+3k^2)^2}$	0
$\Delta_{0+}^{\#3} +$	$-\frac{4\sqrt{\frac{2}{3}}}{16a_0+3a_0k^2}$	$\frac{16(19+3k^2)}{a_0(16+3k^2)^2}$	$-\frac{16(35+6k^2)}{3a_0(16+3k^2)^2}$	$-\frac{8\sqrt{2}(22+3k^2)}{3a_0(16+3k^2)^2}$	$\frac{8i}{\sqrt{3}(16a_0k+3a_0k^3)}$	0
$\Delta_{0+}^{\#4} +$	$-\frac{8}{\sqrt{3}(16a_0+3a_0k^2)}$	$-\frac{8\sqrt{2}(10+3k^2)}{a_0(16+3k^2)^2}$	$-\frac{8\sqrt{2}(22+3k^2)}{3a_0(16+3k^2)^2}$	$-\frac{8i\sqrt{\frac{2}{3}}}{16a_0k+3a_0k^3}$	$\frac{4i\sqrt{2}k(10+3k^2)}{a_0(16+3k^2)^2}$	0
$\mathcal{T}_{0+}^{\#1} +$	$\frac{2i\sqrt{2}}{a_0k}$	$\frac{8i\sqrt{3}}{16a_0k+3a_0k^3}$	$-\frac{8i\sqrt{\frac{2}{3}}}{16a_0k+3a_0k^3}$	$\frac{4}{a_0k^2}$	$\frac{4\sqrt{3}}{16a_0+3a_0k^2}$	0
$\mathcal{T}_{0+}^{\#2} +$	$\frac{2i\sqrt{6}k}{16a_0+3a_0k^2}$	$-\frac{72ik}{a_0(16+3k^2)^2}$	$\frac{8ik(19+3k^2)}{a_0(16+3k^2)^2}$	$-\frac{4i\sqrt{2}k(10+3k^2)}{a_0(16+3k^2)^2}$	$-\frac{36k^2}{a_0(16+3k^2)^2}$	0
$\Delta_{0-}^{\#1} +$	0	0	0	0	0	$-\frac{2}{a_0}$

$\Delta_{3-}^{\#1} + \alpha\beta\chi$
 $-\frac{2}{a_0}$

$\Delta_{3-}^{\#1} + \alpha\beta\chi$
 $-\frac{a_0}{2}$

$\Delta_{2+}^{\#1} + \alpha\beta$	$\Delta_{2+}^{\#2} + \alpha\beta$	$\Delta_{2+}^{\#3} + \alpha\beta$	$\mathcal{T}_{2+}^{\#1} + \alpha\beta$	$\Delta_{2-}^{\#1} + \alpha\beta\chi$	$\Delta_{2-}^{\#2} + \alpha\beta\chi$
0	$\frac{2\sqrt{\frac{2}{3}}}{a_0}$	$\frac{4}{\sqrt{3}a_0}$	$\frac{4i\sqrt{2}}{a_0k}$	0	0
$\Delta_{2+}^{\#2} + \alpha\beta$	$\frac{2\sqrt{\frac{2}{3}}}{a_0}$	$-\frac{8}{3a_0}$	$-\frac{2\sqrt{2}}{3a_0}$	0	0
$\Delta_{2+}^{\#3} + \alpha\beta$	$\frac{4}{\sqrt{3}a_0}$	$-\frac{2\sqrt{2}}{3a_0}$	$\frac{8}{3a_0}$	$-\frac{4i\sqrt{\frac{2}{3}}}{a_0k}$	0
$\mathcal{T}_{2+}^{\#1} + \alpha\beta$	$-\frac{4i\sqrt{2}}{a_0k}$	$\frac{4i}{\sqrt{3}a_0k}$	$\frac{4i\sqrt{\frac{2}{3}}}{a_0k}$	$-\frac{8}{a_0k^2}$	0
$\Delta_{2-}^{\#1} + \alpha\beta\chi$	0	0	0	$\frac{4}{a_0}$	0
$\Delta_{2-}^{\#2} + \alpha\beta\chi$	0	0	0	0	$\frac{4}{a_0}$

$\Delta_{1+}^{\#1} + \alpha\beta$	$\Delta_{1+}^{\#2} + \alpha\beta$	$\Delta_{1+}^{\#3} + \alpha\beta$	$\Delta_{1-}^{\#1} + \alpha$	$\Delta_{1-}^{\#2} + \alpha$	$\Delta_{1-}^{\#3} + \alpha$	$\Delta_{1-}^{\#4} + \alpha$	$\Delta_{1-}^{\#5} + \alpha$	$\Delta_{1-}^{\#6} + \alpha$	$\mathcal{T}_{1-}^{\#1} + \alpha$
$\Delta_{1+}^{\#1} + \alpha\beta$	$-\frac{2\sqrt{2}}{a_0}$	0	0	0	0	0	0	0	0
$\Delta_{1+}^{\#2} + \alpha\beta$	$-\frac{2\sqrt{2}}{a_0}$	0	0	0	0	0	0	0	0
$\Delta_{1+}^{\#3} + \alpha\beta$	0	$\frac{4}{a_0}$	0	0	0	0	0	0	0
$\Delta_{1-}^{\#1} + \alpha$	0	0	0	0	$\frac{\sqrt{2}(4+k^2)}{a_0(2+k^2)}$	$-\frac{2k^2}{\sqrt{3}a_0(2+k^2)}$	$-\frac{\sqrt{\frac{2}{3}}k^2}{a_0(2+k^2)}$	$-\frac{2i\sqrt{2}k}{a_0(2+k^2)}$	0
$\Delta_{1-}^{\#2} + \alpha$	0	0	0	0	$\frac{(4+k^2)^2}{2a_0(2+k^2)^2}$	$\frac{k^2(2+k^2)}{2\sqrt{6}a_0(2+k^2)^2}$	$-\frac{k^2(5+2k^2)}{\sqrt{3}a_0(2+k^2)^2}$	$-\frac{ik(4+k^2)}{a_0(2+k^2)^2}$	0
$\Delta_{1-}^{\#3} + \alpha$	0	0	$-\frac{2k^2}{\sqrt{3}(2a_0+a_0k^2)}$	$\frac{k^2(-2+k^2)}{2\sqrt{6}a_0(2+k^2)^2}$	$\frac{76+52k^2+3k^4}{12a_0(2+k^2)^2}$	$\frac{\sqrt{5}(10+3k^2)}{12a_0(2+k^2)}$	$-\frac{2}{3\sqrt{2}}\frac{k^2}{a_0(2+k^2)^2}$	$-\frac{ik(6+5k^2)}{\sqrt{6}a_0(2+k^2)^2}$	0
$\Delta_{1-}^{\#4} + \alpha$	0	0	0	$-\frac{\sqrt{\frac{5}{6}}k^2}{4a_0+2a_0k^2}$	$\frac{\sqrt{5}(10+3k^2)}{12a_0(2+k^2)}$	$\frac{1}{12a_0}$	$-\frac{\sqrt{2}}{6a_0+3a_0k^2}$	$-\frac{i\sqrt{\frac{5}{6}}k}{a_0(2+k^2)}$	0
$\Delta_{1-}^{\#5} + \alpha$	0	0	0	$\frac{k^2(5+2k^2)}{\sqrt{3}a_0(2+k^2)^2}$	$\frac{3\sqrt{2}a_0(2+k^2)^2}{-2a_0+3a_0k^2}$	$-\frac{1}{6a_0}$	$-\frac{\sqrt{2}(7+3k^2)}{3a_0(2+k^2)}$	$-\frac{i\sqrt{\frac{5}{3}}k}{a_0(2+k^2)}$	0
$\Delta_{1-}^{\#6} + \alpha$	0	0	0	$-\frac{1}{\sqrt{6}(2a_0+a_0k^2)}$	$\frac{1}{6a_0}$	$-\frac{\sqrt{5}}{6a_0}$	$-\frac{5}{3a_0}$	$-\frac{i\sqrt{\frac{2}{3}}k}{a_0(2+k^2)}$	0

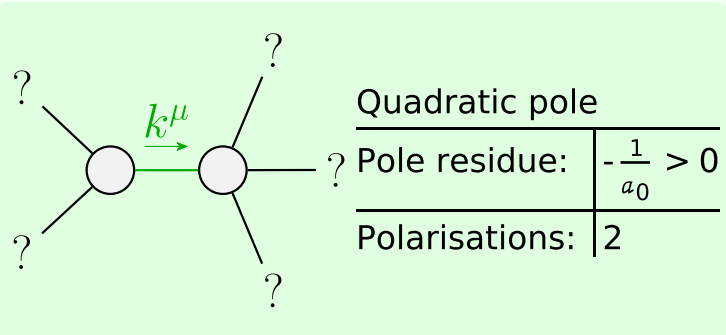
$\Delta_{1+}^{\#1} + \alpha\beta$	$\Delta_{1+}^{\#2} + \alpha\beta$	$\Delta_{1+}^{\#3} + \alpha\beta$	$\Delta_{1-}^{\#1} + \alpha$	$\Delta_{1-}^{\#2} + \alpha$	$\Delta_{1-}^{\#3} + \alpha$	$\Delta_{1-}^{\#4} + \alpha$	$\Delta_{1-}^{\#5} + \alpha$	$\Delta_{1-}^{\#6} + \alpha$	$\mathcal{T}_{1-}^{\#1} + \alpha$
$\Delta_{1+}^{\#1} + \alpha\beta$	$-\frac{2\sqrt{2}}{a_0}$	0	0	0	0	0	0	0	0
$\Delta_{1+}^{\#2} + \alpha\beta$	$-\frac{2\sqrt{2}}{a_0}$	0	0	0	0	0	0	0	0
$\Delta_{1+}^{\#3} + \alpha\beta$	0	$\frac{4}{a_0}$	0	0	0	0	0	0	0
$\Delta_{1-}^{\#1} + \alpha$	0	0	0	0	$\frac{\sqrt{2}(4+k^2)}{a_0(2+k^2)}$	$-\frac{2k^2}{\sqrt{3}(2a_0+a_0k^2)}$	$-\frac{\sqrt{\frac{2}{3}}k^2}{2a_0+a_0k^2}$	$-\frac{2i\sqrt{2}k}{2a_0+a_0k^2}$	0
$\Delta_{1-}^{\#2} + \alpha$	0	0	0	0	$\frac{(4+k^2)^2}{2a_0(2+k^2)^2}$	$\frac{k^2(2+k^2)}{2\sqrt{6}a_0(2+k^2)^2}$	$-\frac{k^2(5+2k^2)}{\sqrt{3}a_0(2+k^2)^2}$	$-\frac{ik(4+k^2)}{a_0(2+k^2)^2}$	0
$\Delta_{1-}^{\#3} + \alpha$	0	0	$-\frac{2k^2}{\sqrt{3}(2a_0+a_0k^2)}$	$\frac{k^2(-2+k^2)}{2\sqrt{6}a_0(2+k^2)^2}$	$\frac{76+52k^2+3k^4}{12a_0(2+k^2)^2}$	$\frac{\sqrt{5}(10+3k^2)}{12a_0(2+k^2)}$	$-\frac{2}{3\sqrt{2}}\frac{k^2}{a_0(2+k^2)^2}$	$-\frac{ik(6+5k^2)}{\sqrt{6}a_0(2+k^2)^2}$	0
$\Delta_{1-}^{\#4} + \alpha$	0	0	0	$-\frac{\sqrt{\frac{5}{6}}k^2}{4a_0+2a_0k^2}$	$\frac{\sqrt{5}(10+3k^2)}{12a_0(2+k^2)}$	$\frac{1}{12a_0}$	$-\frac{\sqrt{2}}{6a_0+3a_0k^2}$	$-\frac{i\sqrt{\frac{5}{6}}k}{a_0(2+k^2)}$	0
$\Delta_{1-}^{\#5} + \alpha$	0	0	0	$\frac{k^2(5+2k^2)}{\sqrt{3}a_0(2+k^2)^2}$	$\frac{3\sqrt{2}a_0(2+k^2)^2}{-2a_0+3a_0k^2}$	$-\frac{1}{6a_0}$	$-\frac{\sqrt{2}(7+3k^2)}{3a_0(2+k^2)}$	$-\frac{i\sqrt{\frac{5}{3}}k}{a_0(2+k^2)}$	0
$\Delta_{1-}^{\#6} + \alpha$	0	0	0	$-\frac{1}{\sqrt{6}(2a_0+a_0k^2)}$	$\frac{1}{6a_0}$	$-\frac{\sqrt{5}}{6a_0}$	$-\frac{5}{3a_0}$	$-\frac{i\sqrt{\frac{2}{3}}k}{a_0(2+k^2)}$	0

Lagrangian density

$$-\frac{1}{2}a_0\Gamma^{\alpha\beta\chi}_{\beta\chi\alpha}\Gamma^{\alpha\beta}_{\alpha\beta}\Gamma^{\chi}_{\beta\chi}-\frac{1}{4}a_0h^{\chi}_{\chi}\partial_{\beta}\Gamma^{\alpha\beta}_{\alpha\beta}+\frac{1}{4}a_0h^{\chi}_{\chi}\partial_{\beta}\Gamma^{\alpha\beta}_{\alpha\beta}-\frac{1}{2}a_0h_{\alpha\chi}\partial_{\beta}\Gamma^{\alpha\beta\chi}_{\beta\chi}+\frac{1}{2}a_0h_{\beta\chi}\partial^{\chi}\Gamma^{\alpha\beta}_{\alpha\beta}$$

Added source term:

$$h^{\alpha\beta}\mathcal{T}_{\alpha\beta}+\Gamma^{\alpha\beta\chi}_{\alpha\beta\chi}\Delta_{\alpha\beta\chi}$$



Unitarity conditions

$a_0 < 0$

(No massive particles)