

$\Delta_{3^{-}}^{\#1} \dagger^{\alpha\beta\chi}$
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	$\Gamma_{1^{+}\alpha\beta}^{\#1}$	$\Gamma_{1^{+}\alpha\beta}^{\#2}$	$\Gamma_{1^{+}\alpha\beta}^{\#3}$	$\Gamma_{1^{-}\alpha}^{\#1}$	$\Gamma_{1^{-}\alpha}^{\#2}$	$\Gamma_{1^{-}\alpha}^{\#3}$	$\Gamma_{1^{-}\alpha}^{\#4}$	$\Gamma_{1^{-}\alpha}^{\#5}$	$\Gamma_{1^{-}\alpha}^{\#6}$	$h_{1^{-}\alpha}^{\#1}$
$\Gamma_{1^{+}}^{\#1} \dagger^{\alpha\beta}$	$-\frac{a_0}{4}$	$-\frac{a_0}{2\sqrt{2}}$	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	$-\frac{a_0}{6}$	$-\frac{\sqrt{5}a_0}{6}$	$\frac{a_0}{6\sqrt{2}}$	$\frac{5a_0}{12}$	0
$h_{1^{-}}^{\#1} \dagger^{\alpha}$	0	0	0	0	0	0	0	0	0	0

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

Lagrangian density

$$-\frac{1}{2}a_0\Gamma^{\alpha\beta\chi}\Gamma_{\beta\chi\alpha}+\frac{1}{2}a_0\Gamma^{\alpha}\Gamma^{\beta}\Gamma^{\chi}\Gamma^{\chi\beta\chi}-$$

$$\frac{1}{2}a_0\Gamma^{\alpha\beta\chi}\partial_{\beta}h_{\alpha\chi}-\frac{1}{2}a_0\Gamma^{\alpha}\Gamma^{\beta}\partial_{\beta}h^{\chi}_{\chi}+\frac{1}{4}a_0\Gamma^{\alpha\beta}\Gamma^{\alpha}\partial_{\beta}h^{\chi}_{\chi}-$$

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

$$\frac{1}{2}a_0h^{\alpha\beta}\partial_{\beta}\partial_{\alpha}h^{\chi}_{\chi}-\frac{1}{8}a_0\partial_{\beta}h^{\chi}_{\chi}\partial^{\beta}h^{\alpha}_{\alpha}+\frac{1}{2}a_0\Gamma^{\alpha}\Gamma^{\beta}\partial_{\chi}h^{\chi\beta}_{\beta}-$$

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

$$\frac{1}{4}a_0h^{\alpha}_{\alpha}\partial_{\chi}\partial_{\beta}h^{\beta\chi}+\frac{1}{2}a_0h^{\alpha\beta}\partial_{\chi}\partial^{\chi}h_{\alpha\beta}-\frac{1}{4}a_0h^{\alpha}_{\alpha}\partial_{\chi}\partial^{\chi}h^{\beta}_{\beta}-$$

$$\frac{1}{4}a_0\partial_{\beta}h^{\alpha\chi}\partial^{\chi}h^{\alpha\beta}+\frac{3}{8}a_0\partial_{\chi}h_{\alpha\beta}\partial^{\chi}h^{\alpha\beta}+\frac{1}{2}a_0h_{\beta\chi}\partial^{\chi}\Gamma^{\alpha}_{\alpha}\beta$$

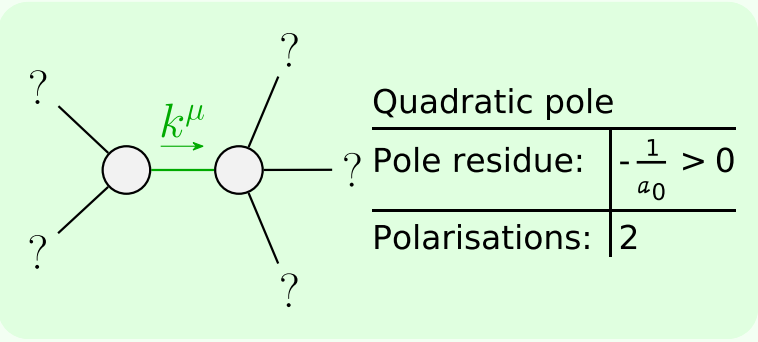
Added source term: $h^{\alpha\beta}\mathcal{T}_{\alpha\beta}+\Gamma^{\alpha\beta\chi}\Delta_{\alpha\beta\chi}$

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

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

	$\Gamma_{2^{+}\alpha\beta}^{\#1}$	$\Gamma_{2^{+}\alpha\beta}^{\#2}$	$\Gamma_{2^{+}\alpha\beta}^{\#3}$	$h_{2^{+}\alpha\beta}^{\#1}$	$\Gamma_{2^{-}\alpha\beta\chi}^{\#1}$	$\Gamma_{2^{-}\alpha\beta\chi}^{\#2}$
$\Gamma_{2^{+}}^{\#1} \dagger^{\alpha\beta}$	$\frac{a_0}{4}$	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	$-\frac{a_0k^2}{8}$	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	$\frac{a_0}{4}$

	$\Gamma_{0^{+}}^{\#1}$	$\Gamma_{0^{+}}^{\#2}$	$\Gamma_{0^{+}}^{\#3}$	$\Gamma_{0^{+}}^{\#4}$	$h_{0^{+}}^{\#1}$	$h_{0^{+}}^{\#2}$	$\Gamma_{0^{-}}^{\#1}$
$\Gamma_{0^{+}}^{\#1} \dagger$	$-\frac{a_0}{2}$	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	$\frac{a_0k^2}{4}$	0	0
$h_{0^{+}}^{\#2} \dagger$	0	0	0	0	0	0	0
$\Gamma_{0^{-}}^{\#1} \dagger$	0	0	0	0	0	0	$-\frac{a_0}{2}$



$a_0 < 0$

Unitarity conditions

(No massive particles)