

Wave operator and propagator

Source constraints		
SO(3) irreps	Fundamental fields	Multiplicities
$\mathcal{T}_{0^+}^{\#2} == 0$	$\partial_\beta \partial_\alpha \mathcal{T}^{\alpha\beta} == 0$	1
$\Delta_{0^+}^3 + 2 \Delta_{0^+}^4 + 3 \Delta_{0^+}^{\#2} == 0$	$\partial_\alpha \Delta^{\alpha\beta}_\beta == 0$	1
$\mathcal{T}_{1^-}^{\#1\alpha} == 0$	$\partial_\chi \partial_\beta \partial^\alpha \mathcal{T}^{\beta\chi} == \partial_\chi \partial^\chi \partial_\beta \mathcal{T}^{\alpha\beta}$	3
$2 \Delta_{1^-}^{\#6\alpha} + \Delta_{1^-}^{\#4\alpha} + 2 \Delta_{1^-}^{\#5\alpha} + \Delta_{1^-}^{\#3\alpha} == 0$	$\partial_\beta \partial^\alpha \Delta^{\beta\chi}_\chi == \partial_\chi \partial^\chi \Delta^{\alpha\beta}_\beta$	3
Total constraints/gauge generators:		8

$\Gamma_{2^+ \alpha \beta}^{1^+}$	$\Gamma_{1^+ \alpha \beta}^{2^+}$	$\Gamma_{1^+ \alpha \beta}^{3^+}$	$\Gamma_{1^+ \alpha}^{1^+}$	$\Gamma_{1^+ \alpha}^{2^+}$	$\Gamma_{1^+ \alpha}^{3^+}$	$\Gamma_{1^+ \alpha}^{4^+}$	$\Gamma_{1^+ \alpha}^{5^+}$	$\Gamma_{1^+ \alpha}^{6^+}$	$\Gamma_{1^+ \alpha}^{7^+}$
$\frac{1}{4}(-a_0-15a_1k^2)$	$-\frac{a_0}{2\sqrt{2}}$	$5a_1k^2$	0	0	0	0	0	0	0
$-\frac{a_0}{2\sqrt{2}}$	0	0	0	0	0	0	0	0	0
$5a_1k^2$	0	$\frac{1}{4}(a_0-29a_1k^2)$	0	0	0	0	0	0	0
0	0	0	$\frac{1}{4}(-a_0-3a_1k^2)$	$\frac{a_0}{2\sqrt{2}}$	$\frac{5}{2}\sqrt{3}a_1k^2$	$-\frac{5}{2}\sqrt{\frac{5}{3}}a_1k^2$	$5\sqrt{\frac{3}{2}}a_1k^2$	$-\frac{5a_1k^2}{\sqrt{3}}$	0
0	0	0	$\frac{a_0}{2\sqrt{2}}$	0	0	0	0	0	0
0	0	0	$\frac{5}{2}\sqrt{3}a_1k^2$	0	$-\frac{a_0}{3}$	$\frac{1}{6}\sqrt{5}(a_0-8a_1k^2)$	$-\frac{a_0}{6\sqrt{2}}$	$\frac{1}{6}(-a_0+20a_1k^2)$	0
0	0	0	$-\frac{5}{2}\sqrt{\frac{5}{3}}a_1k^2$	0	$\frac{1}{6}\sqrt{5}(a_0-8a_1k^2)$	$\frac{1}{3}(a_0+7a_1k^2)$	$-\frac{1}{6}\sqrt{\frac{5}{2}}(a_0+16a_1k^2)$	$-\frac{1}{6}\sqrt{5}(a_0-5a_1k^2)$	0
0	0	0	$5\sqrt{\frac{3}{2}}a_1k^2$	0	$-\frac{a_0}{6\sqrt{2}}$	$-\frac{1}{6}\sqrt{\frac{5}{2}}(a_0+16a_1k^2)$	$\frac{a_0}{3}$	$\frac{a_0+40a_1k^2}{6\sqrt{2}}$	0
0	0	0	$-\frac{5a_1k^2}{\sqrt{3}}$	0	$\frac{1}{6}(-a_0+20a_1k^2)$	$-\frac{1}{6}\sqrt{5}(a_0-5a_1k^2)$	$\frac{a_0+40a_1k^2}{6\sqrt{2}}$	$\frac{5}{12}(a_0-17a_1k^2)$	0
0	0	0	0	0	0	0	0	0	0

$\Gamma_{2^+ \alpha \beta}^{1^+}$	$\Gamma_{2^+ \alpha \beta}^{2^+}$	$\Gamma_{2^+ \alpha \beta}^{3^+}$	$\Gamma_{2^+ \alpha \beta}^{4^+}$	$\Gamma_{2^+ \alpha \beta}^{5^+}$	$\Gamma_{2^+ \alpha \beta}^{6^+}$
$\frac{1}{4}(a_0+11a_1k^2)$	$-5\sqrt{\frac{2}{3}}a_1k^2$	$\frac{5a_1k^2}{\sqrt{3}}$	$-\frac{11a_1k^3}{4\sqrt{2}}$	0	0
$-5\sqrt{\frac{2}{3}}a_1k^2$	$\frac{1}{6}(-3a_0+a_1k^2)$	$-\frac{a_1k^2}{6\sqrt{2}}$	$\frac{5ia_1k^3}{\sqrt{3}}$	0	0
$\frac{5a_1k^2}{\sqrt{3}}$	$-\frac{a_1k^2}{6\sqrt{2}}$	$\frac{1}{12}(3a_0+a_1k^2)$	$-\frac{5ia_1k^3}{\sqrt{6}}$	0	0
$\frac{11ia_1k^3}{4\sqrt{2}}$	$-\frac{5ia_1k^3}{\sqrt{3}}$	$\frac{5ia_1k^3}{\sqrt{6}}$	$-\frac{1}{8}k^2(a_0-11a_1k^2)$	0	0
0	0	0	0	$\frac{1}{4}(a_0-a_1k^2)$	0
0	0	0	0	0	$\frac{1}{4}(a_0-5a_1k^2)$