

# Wave operator and propagator

[illegible]

Source constraints/gauge generators	
SO(3) irreps	Multiplicities
$2\mathcal{T}_{0^+}^{\#2} - i k \Delta_{0^+}^{\#2} == 0$	1
$\Delta_{0^+}^{\#3} + 2\Delta_{0^+}^{\#4} + 3\Delta_{0^+}^{\#2} == 0$	1
$6\mathcal{T}_1^{\#1\alpha} - i k (3\Delta_1^{\#2\alpha} - \Delta_1^{\#5\alpha} + \Delta_1^{\#3\alpha}) == 0$	3
$2\Delta_1^{\#6\alpha} + \Delta_1^{\#4\alpha} + 2\Delta_1^{\#5\alpha} + \Delta_1^{\#3\alpha} == 0$	3
Total constraints:	8

[illegible]

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

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

(No massive particles)

$$a_0 < 0$$