

Wave operator and propagator

$$S = \iiint \int \left(\theta^{\alpha\beta} \omega_{\alpha\beta} + \frac{(\partial_{\theta\mu} \bar{\rho}^{\partial_{\theta\mu}}) \partial^{\rho} \theta^{\mu\nu}}{4\kappa} \right) [t, x, y, z] dt dz dy dx$$

$$2^+ \theta_{\alpha\beta} - \frac{k^2}{4\kappa}$$

$$2^{+} \theta^{\dagger} \alpha \beta$$

$$\begin{array}{ccc} 1^{\#1} & 1^{\#1} & 1^{\#2} \\ \theta_{\alpha\beta} & \theta_{\alpha} & \theta_{\alpha} \end{array}$$

$$\begin{array}{c|cc} \#1_{+} \theta + \alpha \beta & -\frac{k^2}{4\kappa} & 0 \\ \hline \#1_{+} \omega + 2 & 0 & 0 \end{array}$$

$$\frac{4\kappa}{k^2}$$

α	$\#1-\theta$	0	$-\frac{k^2}{4\kappa}$	0
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$$\begin{matrix} \#1 & \#2 \\ 0^+ & \theta & 0^+ & \theta \end{matrix}$$

#2 θ_1	0	0	0
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$0^{\#1} + \theta$	$-\frac{k^2}{4\kappa}$	0
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$\#1$	$\#1$	$\#2$	
1^+	1^-	0^+	0
$\omega_{\alpha\beta}$	ω_{α}	θ	0

$\alpha\beta$	$\frac{4\kappa}{k^2}$	0	0
$\#_+^1 \omega + \dots$			$\#_+^1 \omega + \dots$

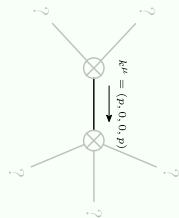
α	0	$-\frac{4\kappa}{k^2}$	0
ω	0	0	0
ω	0	0	0

$\#2$	α	0	0	0	$\#2$	ω_+	0	0
$\#1$	ω_+	0	0	0	$\#1$	ω_+	0	0

Spin-parity	form	Covariant form	Multiplicities
$\#2$ $0^+ \quad \omega = 0$		$\partial_\beta \partial_\alpha \omega^{\alpha\beta} = 0$	1
$\#2$ $1^- \quad \omega = 0$		$\partial_\lambda \partial_\beta \partial^\alpha \omega^{\beta\lambda} = \partial_\lambda \partial^\alpha \partial_\beta \omega^{\alpha\beta}$	3
Total expected gauge generators:			4

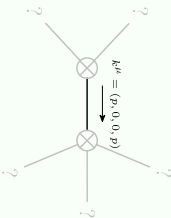
Massive and massless spectra

(No particles)



Massless particle

Poleresidue:	$k > 0$
Polarisations:	2



Massless particle

Pole residue:	$-k > 0$
Polarisations:	6

Unitarity conditions