

Wave operator and propagator

$$S = \iiint (\beta \mathcal{B}_{\alpha\beta} \mathcal{B}^{\alpha\beta} + f^{\alpha\beta} \tau_{\alpha\beta} + \mathcal{B}^{\alpha\beta} \mathcal{J}_{\alpha\beta} - \frac{1}{3} \alpha (2 \partial_\beta \mathcal{B}_{\alpha\chi} - \partial_\chi \mathcal{B}_{\alpha\beta}) \partial^{\chi} \mathcal{B}^{\alpha\beta} + \\ \frac{1}{2} t_1 (2 \partial_\beta f^{\chi}{}_{\chi} \partial^\beta f^{\alpha}{}_{\alpha} - 4 \partial_\beta f^{\alpha}{}_{\alpha} \partial^\chi f^{\beta}{}_{\chi} + 2 \partial_\beta f^{\alpha\beta} (\partial_\chi f^{\chi}{}_{\alpha} + 2 \partial_\chi \mathcal{B}_{\beta}{}^{\chi}) - 2 \partial_\alpha \mathcal{B}^{\alpha\beta} \partial_\chi \mathcal{B}_{\beta}{}^{\chi} - \\ 4 \partial^\beta f^{\alpha}{}_{\alpha} \partial_\chi \mathcal{B}_{\beta}{}^{\chi} + 2 \partial_\alpha f_{\beta\chi} \partial^\chi f^{\alpha\beta} + \partial_\alpha f_{\chi\beta} \partial^\chi f^{\alpha\beta} - \partial_\beta f_{\alpha\chi} \partial^\chi f^{\alpha\beta} - 4 \partial_\beta \mathcal{B}_{\alpha\chi} \partial^\chi f^{\alpha\beta} - \\ \partial_\chi f_{\alpha\beta} \partial^\chi f^{\alpha\beta} - \partial_\chi f_{\beta\alpha} \partial^\chi f^{\alpha\beta} - 2 \partial_\beta \mathcal{B}_{\alpha\chi} \partial^\chi \mathcal{B}^{\alpha\beta})) [t, x, y, z] d z d y d x d t$$

Massive and massless spectra

Pole residue:	$\frac{3}{a} > 0$
Square mass:	$\frac{3b}{a} > 0$
Spin:	1
Parity:	Even

Unitarity conditions