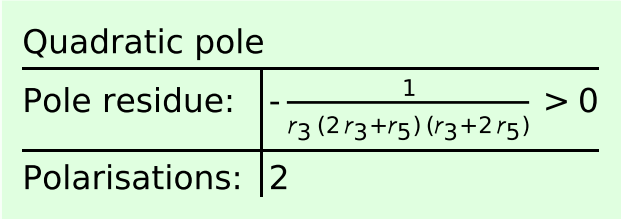


Wave operator and propagator

$$\begin{aligned}
& \text{Quadratic (free) action} \\
S = & \iiint (\omega^{\alpha\beta\chi} \sigma_{\alpha\beta\chi} + \frac{1}{3} r_2 (4 \partial_\beta \omega_{\alpha\mid\theta} - 2 \partial_\beta \omega_{\alpha\theta\mid} + 2 \partial_\beta \omega_{\mid\theta\alpha} - \\
& \partial_{\mid}\omega_{\alpha\beta\theta} + \partial_\theta \omega_{\alpha\beta\mid} - 2 \partial_\theta \omega_{\alpha\mid\beta}) \partial^\theta \omega^{\alpha\beta\mid} - \\
& \frac{1}{2} r_3 (\partial_\beta \omega_{\mid\theta}^\theta \partial_{\mid}^\theta \omega^{\alpha\beta}_\alpha + \partial_{\mid}\omega_{\beta\theta}^\theta \partial_{\mid}^\theta \omega^{\alpha\beta}_\alpha + \partial_\alpha \omega^{\alpha\beta\mid} \partial_\theta \omega_{\beta\mid}^\theta - \\
& 2 \partial_{\mid}^\theta \omega^{\alpha\beta}_\alpha \partial_\theta \omega_{\beta\mid}^\theta + \partial_\alpha \omega^{\alpha\beta\mid} \partial_\theta \omega_{\mid\beta}^\theta - \\
& 2 \partial_{\mid}^\theta \omega^{\alpha\beta}_\alpha \partial_\theta \omega_{\mid\beta}^\theta + 8 \partial_\beta \omega_{\mid\theta\alpha} \partial^\theta \omega^{\alpha\beta\mid}) + \\
& r_5 (\partial_{\mid}\omega_{\theta\kappa}^\kappa \partial_\kappa^\theta \omega_{\alpha\mid}^{\alpha\mid} - \partial_\theta \omega_{\mid\kappa}^\kappa \partial_\kappa^\theta \omega_{\alpha\mid}^{\alpha\mid} - (\partial_\alpha \omega^{\alpha\mid\theta}_\alpha - 2 \partial^\theta \omega_{\alpha\mid}^{\alpha\mid}) \\
& (\partial_\kappa \omega_{\mid\theta}^\kappa - \partial_\kappa \omega_{\theta\mid}^\kappa))) [t, x, y, z] dz dy dx dt
\end{aligned}$$

Massive and massless spectra



Unitarity conditions

$$r_3 < 0 \&\& (r_5 < -\frac{r_3}{2} \parallel r_5 > -2r_3) \parallel r_3 > 0 \&\& -2r_3 < r_5 < -\frac{r_3}{2}$$