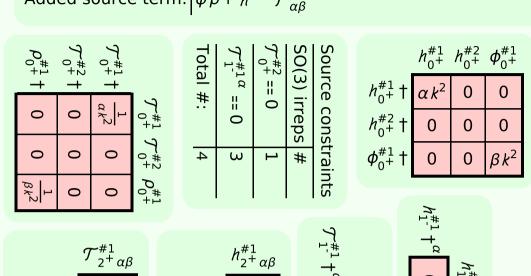
## Lagrangian density

$$\frac{\beta \partial_{\alpha} \phi \partial^{\alpha} \phi + \frac{1}{2} \alpha \partial_{\beta} h^{\chi}_{\chi} \partial^{\beta} h^{\alpha}_{\alpha} + \alpha \partial_{\alpha} h^{\alpha\beta} \partial_{\chi} h^{\chi}_{\beta} - \alpha \partial^{\beta} h^{\alpha}_{\alpha} \partial_{\chi} h^{\chi}_{\beta} - \frac{1}{2} \alpha \partial_{\chi} h_{\alpha\beta} \partial^{\chi} h^{\alpha\beta}}{\alpha^{\beta} \partial_{\chi} h^{\alpha\beta} \partial^{\chi} h^{\alpha\beta}}$$

Added source term: 
$$\phi \rho + h^{\alpha\beta} \mathcal{T}_{\alpha\beta}$$



? 
$$extit{$\frac{k^{\mu}}{2}$}$$
? Quadratic pole Pole residue:  $extit{$-\frac{1}{\alpha} > 0$}$  Polarisations:  $extit{$2$}$ 

? Quadratic pole
? Pole residue: 
$$\frac{1}{\beta} > 0$$
? Polarisations: 1

Unitarity conditions  $\alpha$  < 0 &&  $\beta$  > 0

(No massive particles)