

Wave operator and propagator

Quadratic (free) action

$$S_{==}$$

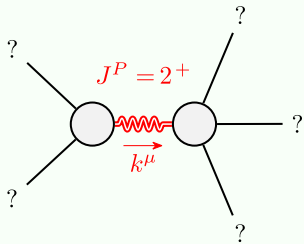
$$\iiint \int (\beta (h_{\alpha\beta} h^{\alpha\beta} - h^{\alpha}_{\alpha} h^{\beta}_{\beta}) + h^{\alpha\beta} \mathcal{T}_{\alpha\beta} + \frac{1}{2} \alpha (\partial_{\beta} h^{\chi}_{\chi} \partial^{\beta} h^{\alpha}_{\alpha} + 2 \partial_{\alpha} h^{\alpha\beta} \partial_{\chi} h^{\chi}_{\beta} - 2 \partial^{\beta} h^{\alpha}_{\alpha} \partial_{\chi} h^{\chi}_{\beta} - \partial_{\chi} h^{\alpha\beta} \partial^{\chi} h^{\alpha\beta})) [t, x, y, z] dz dy dx dt$$

Diagram illustrating the construction of the 2x2 matrix for the second step of the algorithm, showing the combination of results from the first step (h₀^{#1}, h₀^{#2}) and the second step (h₁^{#1}, h₁^{#2}).

The matrix is shown as a 2x2 grid of blocks, with the top-left block highlighted in pink and the others in light blue. The matrix is labeled (No source constraints) in a green box.

The matrix is also labeled with the indices 1 and 2, and the superscripts #1 and #2.

Massive and massless spectra



Massive particle	
Pole residue:	$-\frac{2}{\alpha} > 0$
Polarisations:	5
Square mass:	$\frac{2\beta}{\alpha} > 0$
Spin:	2
Parity:	Even

(No massless particles)

Unitarity conditions

$$\alpha < 0 \ \&\& \ \beta < 0$$