$S = \iiint \left(\mathcal{B}^{\alpha} \mathcal{J}_{\alpha} + \alpha \sum_{i} \partial_{\alpha} \mathcal{B}^{\alpha} \partial_{\beta} \mathcal{B}^{\beta} + \alpha \sum_{i} \partial_{\beta} \mathcal{B}_{\alpha} \partial^{\beta} \mathcal{B}^{\alpha} \right) [t, x, y, z] dz dy dx dt$ **Wave operator** $0^{\circ} \mathcal{B} \uparrow \frac{\left(\alpha_{1} + \alpha_{2}\right) k^{2}}{\left(\alpha_{1} + \alpha_{2}\right) k^{2}} \stackrel{1}{\mathcal{B}}_{\alpha}$ $\frac{1}{\mathcal{B}} \uparrow^{\alpha} \frac{\alpha_{1}}{1} k^{2}$ Saturated propagator $\begin{array}{c} \overset{\circ}{\cdot} \mathcal{J} \\ \overset{\circ}{\cdot} \mathcal{J} \dagger \\ \xrightarrow{\alpha_1 + \alpha_2 k^2} \downarrow \overset{1}{\cdot} \mathcal{J}_{\alpha} \\ \xrightarrow{1 \cdot \mathcal{J}} \uparrow^{\alpha} \xrightarrow{\alpha_1 k^2} \end{array}$ Source constraints (No source constraints) Massive spectrum (No particles) Massless spectrum Massless particle Massless particle Pole residue: $\left| -\frac{1}{\alpha_1} > 0 \right|$ Pole residue: $\begin{vmatrix} -\frac{1}{\alpha} & -\frac{1}{\alpha + \alpha} \\ \frac{1}{1} & \frac{1}{2} \end{vmatrix} > 0$ Massless particle Quartic pole Pole residue: $0 < -\frac{\alpha \cdot p^2}{\alpha \cdot (\alpha \cdot + \alpha \cdot)} & \& -\frac{\alpha \cdot p^2}{\alpha \cdot (\alpha \cdot + \alpha \cdot)} > 0$

Polarisations: 1

Pole residue: $\left| \frac{1}{\frac{1}{\alpha_1}} + \frac{1}{\frac{1}{\alpha_1 + \alpha_2}} > 0 \right|$ Polarisations: 1 Unitarity conditions

(Demonstrably impossible)

PSALTer results panel