with the Lagrangian, as defined below Eq. (18) of arXiv:1812.02675: Matrix for spin-0 sector: $\begin{pmatrix} 0 & -\sqrt{3} & \alpha_{\cdot} \\ -\sqrt{3} & \alpha_{\cdot} & -2 & \alpha_{\cdot} + \alpha_{\cdot} & k^2 \end{pmatrix}$

Matrix for spin-1 sector:
$$\binom{\alpha}{2}$$
Matrix for spin-2 sector:

The (possibly singular) a-matrices associated

$$\frac{2 \frac{\alpha \cdot -\alpha \cdot k^{2}}{2 \frac{1}{1}}}{3 \frac{\alpha \cdot 2}{2}} - \frac{1}{\sqrt{3} \frac{\alpha \cdot 2}{2}} - \frac{1}{\sqrt{3} \frac{\alpha \cdot 2}{2}}$$

$$\left(\begin{array}{c} \frac{1}{\alpha_{*}} \\ \end{array}\right)$$

Matrix for spin-2 sector:
$$\left(\begin{array}{c} \frac{1}{a \cdot r^2} \\ \frac{\alpha \cdot e^{-\frac{1}{2}}}{2} \end{array} \right)$$

$$\left\{\emptyset,\,\emptyset,\,\emptyset,\,\emptyset,\,\left\{\frac{2\alpha_{\frac{1}{2}}}{\alpha_{\frac{1}{2}}}\right\},\,\emptyset\right\}$$

Overall particle spectrum:

Massive particle

Square mass: $\frac{2\alpha}{\alpha} > 0$

Pole residue:

Spin: Parity:

 α_{\cdot} < 0 && α_{\cdot} < 0

 $-\frac{2}{} > 0$

Even

Overall unitarity conditions:

$$\left\{0, 0, 0, 0, \left\{-\frac{2}{\alpha_{i}}\right\}, 0\right\}$$

Matrix for spin-1 sector:
$$\left(\frac{1}{\alpha_2}\right)$$

$$\left(\frac{1}{\frac{a}{2}}\right)$$







 $\left(\frac{\alpha_{\cdot}}{2} - \frac{\frac{\alpha_{\cdot}}{1}k^2}{2}\right)$