$$\left(-\frac{r}{3} - r \cdot \frac{1}{5}\right) \partial_{i} \mathcal{A}_{b \ j}^{ab} \partial_{i} \mathcal{A}_{a \ a}^{ab} - \frac{2}{3} t \cdot \mathcal{A}_{abi} \partial_{i} f^{ab} + \frac{2}{3} t \cdot \mathcal{A}_{aib} \partial_{i} f^{ab} - \frac{2}{3} t \cdot \mathcal{A}_{bia} \partial_{i} f^{ab} + \frac{2}{3} t \cdot \mathcal{A}_{bia} \partial_{i} f^{ab} - \frac{2}{3} t \cdot \mathcal{A}_{bia} \partial_{i} f^{ab} + \frac{1}{3} t \cdot \partial_{a} f_{b \ i} \partial_{i} f^{ab} - \frac{1}{6} t \cdot \partial_{a} f_{ab} \partial_{i} f^{ab} - \frac{1}{6} t \cdot \partial_{b} f_{ai} \partial_{i} f^{ab} + \frac{1}{6} t \cdot \partial_{i} f_{ab} \partial_{i} f^{ab} - \frac{1}{6} t \cdot \partial_{i} f_{ba} \partial_{i} f^{ab} + \frac{1}{6} t \cdot \partial_{i} f_{ab} \partial_{i} f^{ab} - \frac{1}{6} t \cdot \partial_{i} f_{ba} \partial_{i} f^{ab} + \frac{1}{6} t \cdot \partial_{i} f_{ab} \partial_{i} f^{ab} - \frac{1}{6} t \cdot \partial_{i} f_{ba} \partial_{i} f^{ab} + \frac{1}{6} t \cdot \partial_{i} f_{ab} \partial_{i} f^{ab} - \frac{1}{6} t \cdot \partial_{i} f_{ab} \partial_{i} f^{ab} + \frac{1}{6} t \cdot \partial_{i} f_{ab} \partial_{i} f^{ab} - \frac{1}{6} t \cdot \partial_{i} f_{ab} \partial_{i} f^{ab} + \frac{1}{6} t \cdot \partial_{i} f_{ab} \partial_{i} f^{ab} - \frac{1}{6} t \cdot \partial_{i} f_{ab} \partial_{i} f^{ab} + \frac{1}{6} t \cdot \partial_{i} f_{ab} \partial_{i} f^{ab} - \frac{1}{6} t \cdot \partial_{i} f_{ab} \partial_{i} f^{ab} + \frac{1}{6} t \cdot \partial_{i} f_{ab} \partial_{i} f^{ab} - \frac{1}{6} t \cdot \partial_{i} f_{ab} \partial_{i} f^{ab} + \frac{1}{6} t \cdot \partial_{i} f_{ab} \partial_{i} f^{ab} - \frac{1}{6} t \cdot \partial_{i} f_{ab} \partial_{i} f^{ab} + \frac{1}{6} t \cdot \partial_{i} f_{ab} \partial_{i} f^{ab} - \frac{1}{6} t \cdot \partial_{i} f_{ab} \partial_{i} f^{ab} + \frac{1}{6} t \cdot \partial_{i} f_{ab} \partial_{i} f^{ab} - \frac{1}{6} t \cdot \partial_{i} f_{ab} \partial_{i} f^{ab} + \frac{1}{6} t \cdot \partial_{i} f_{ab} \partial_{i} f^{ab} - \frac{1}{6} t \cdot \partial_{i} f_{ab} \partial_{i} f^{ab} + \frac{1}{6} t \cdot \partial_{i} f_{ab} \partial_{i} f^{ab} \partial_{i} f^{ab} - \frac{1}{6} t \cdot \partial_{i} f_{ab} \partial_{i} f^{ab} \partial_{i} f^{ab} + \frac{1}{6} t \cdot \partial_{i} f_{ab} \partial_{i} f^{ab} \partial_{$$

(1)

Now we pass this theory into the PSALTer package, which computes the particle spectrum:

The (possibly singular) a-matrices associated

with the Lagrangian, as defined below Eq. (18) of arXiv:1812.02675:

Matrix for spin-0 sector:

 $\frac{1}{3} t_{\bullet} \mathcal{A}_{abi} \mathcal{A}^{abi} - \frac{2}{3} t_{\bullet} \mathcal{A}_{aib} \mathcal{A}^{abi} + \left(-\frac{r_{\bullet}}{3} + r_{\bullet}\right) \partial_{b} \mathcal{A}_{ij}^{j} \partial^{i} \mathcal{A}^{ab}_{a} +$

Matrix for spin-2 sector: