The (possibly singular) a-matrices associated with the Lagrangian, as defined below Eq. (18) of arXiv:1812.02675:

Matrix for spin-0 sector:

(0)

Matrix for spin-1 sector:

$\left(2\,\alpha_{1}.\,k^2\right)$

Gauge constraints on source currents:

$\overset{0}{\cdot}\mathcal{J} == 0$

The Drazin (Moore-Penrose) inverses of these a-matrices, which are functionally analogous to the inverse b-matrices described below Eq. (21) of arXiv:1812.02675:

Matrix for spin-0 sector:

(0)

Matrix for spin-1 sector:

$\left(\frac{1}{2\,\alpha_{1}.\,k^2}\right)$

Square masses:

{{}, {}, {}, {}}

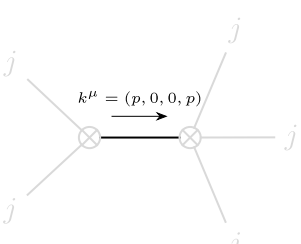
Massive pole residues:

{{}, {}, {}, {}}

Massless eigenvalues:

$\left\{-\frac{1}{2\,\alpha_{1}.},\,-\frac{1}{2\,\alpha_{1}.}\right\}$

Overall particle spectrum:



Massless particle

Pole residue:	$-\frac{1}{\alpha_{1}.} > 0$
Polarisations:	2

Overall unitarity conditions:

$\alpha_{1}. < 0$