

## Lagrangian density

$$-\frac{2}{3} \alpha \partial_\beta \mathcal{B}_{\alpha\chi} \partial^\chi \mathcal{B}^{\alpha\beta} + \frac{1}{3} \alpha \partial_\chi \mathcal{B}_{\alpha\beta} \partial^\chi \mathcal{B}^{\alpha\beta}$$

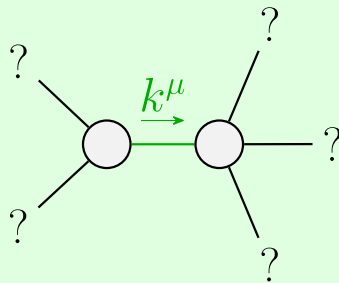
Added source term:  $\mathcal{B}^{\alpha\beta} \mathcal{J}_{\alpha\beta}$

$$\begin{array}{c} \mathcal{J}_{1^+}^{\#1} \quad \mathcal{J}_{1^-}^{\#1} \\ \mathcal{J}_{1^+}^{\#1} \dagger^{\alpha\beta} \quad \begin{array}{|c|c|} \hline \frac{3}{\alpha k^2} & 0 \\ \hline 0 & 0 \\ \hline \end{array} \\ \mathcal{J}_{1^-}^{\#1} \dagger^\alpha \quad \end{array}$$

$$\begin{array}{c} \mathcal{B}_{1^+}^{\#1} \quad \mathcal{B}_{1^-}^{\#1} \\ \mathcal{B}_{1^+}^{\#1} \dagger^{\alpha\beta} \quad \begin{array}{|c|c|} \hline \frac{\alpha k^2}{3} & 0 \\ \hline 0 & 0 \\ \hline \end{array} \\ \mathcal{B}_{1^-}^{\#1} \dagger^\alpha \quad \end{array}$$

## Source constraints

SO(3) irreps	#
$\mathcal{J}_{1^-}^{\#1\alpha} == 0$	3
Total #:	3



Quadratic pole

Pole residue:  $\frac{1}{\alpha} > 0$

Polarisations: 1

$\alpha > 0$  | Unitarity conditions

(No massive particles)