

Lagrangian density

$$\alpha \partial_\alpha \phi \partial^\alpha \phi$$

Added source term: $\phi \rho$

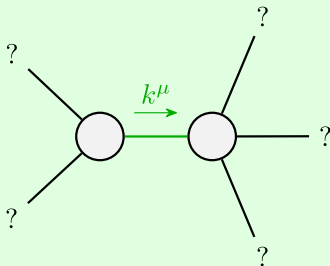
$$\rho_{0+}^{\#1} +$$

$$\rho_{0+}^{\#1} \left[\frac{1}{\alpha k^2} \right]$$

$$\phi_{0+}^{\#1} +$$

$$\phi_{0+}^{\#1} \left[\alpha k^2 \right]$$

(No source constraints)



Quadratic pole

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

Polarisations: 1

(No massive particles)

Unitarity conditions
 $\alpha > 0$