Lagrangian density

$$\beta\,\partial_\alpha\mathcal{B}^\alpha\,\partial_\beta\mathcal{B}^\beta + \alpha\,\partial_\beta\mathcal{B}_\alpha\,\partial^\beta\mathcal{B}^\alpha$$

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

$\mathcal{J}_{1^-}^{\#1}\dagger^\alpha$ | $\mathcal{J}_{1^-\ \alpha}^{\#1}$
 $\dfrac{1}{\alpha\,k^2}$

$\mathcal{B}_{1^-}^{\#1}\dagger^\alpha$ | $\mathcal{B}_{1^-\ \alpha}^{\#1}$
 $\alpha\,k^2$

$\mathcal{B}_{0^+}^{\#1}\dagger$ | $\mathcal{B}_{0^+}^{\#1}$
 $(\alpha+\beta)\,k^2$

(No source constraints)
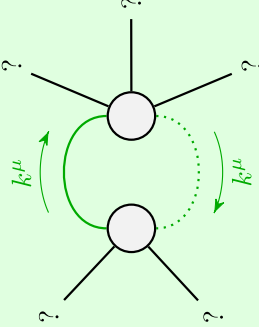
$\mathcal{J}_{0^+}^{\#1}\dagger$ | $\mathcal{J}_{0^+}^{\#1}$
 $\dfrac{1}{(\alpha+\beta)\,k^2}$

(No massive particles)
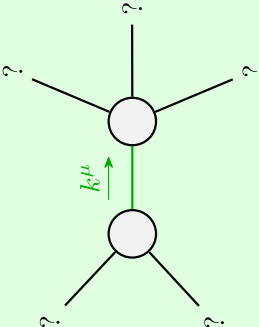
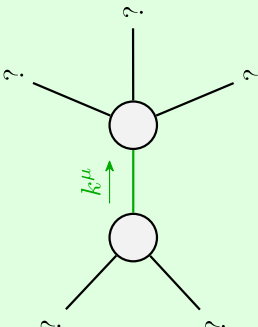**Unitarity conditions**

(Unitarity is demonstrably impossible)

Quartic pole

Pole residue: ?

$$0 < -\frac{\beta}{\alpha\,(\alpha+\beta)} \ \&\& \ -\frac{\beta}{\alpha\,(\alpha+\beta)} > 0$$
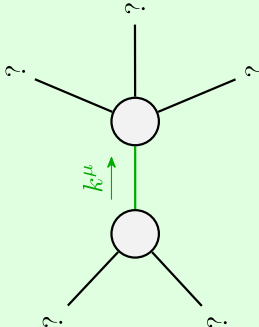
Polarisations: 1

Quadratic pole

Pole residue: ?

$$-\frac{1}{\alpha}-\frac{1}{\alpha+\beta} > 0$$

Polarisations: 1

Quadratic pole

Pole residue: ?

$$-\frac{1}{\alpha} > 0$$

Polarisations: 2

Quadratic pole

Pole residue: ?

$$\frac{1}{\alpha}+\frac{1}{\alpha+\beta} > 0$$

Polarisations: 1