**Lagrangian density**

$$-2\,\alpha\,\partial_\alpha\mathcal{B}_\beta\,\partial^\beta\mathcal{B}^\alpha + 2\,\alpha\,\partial_\beta\mathcal{B}_\alpha\,\partial^\beta\mathcal{B}^\alpha$$

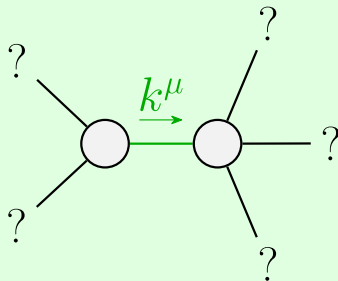Added source term: $\mathcal{B}^\alpha\,\mathcal{T}_\alpha$

| Source constraints | SO(3) irreps | $\mathcal{T}_{0^+}^{\#1}==0$ | Total #: |
|---|---|---|---|
| | # | 1 | 1 |

$\mathcal{T}_{1^-}^{\#1}\dagger^\alpha$ 

| $\frac{1}{2\,\alpha\,k^2}$ |
|---|

$\mathcal{T}_{1^-\,\alpha}^{\#1}$

$\mathcal{B}_{1^-}^{\#1}\dagger^\alpha$

| $2\,\alpha\,k^2$ |
|---|

$\mathcal{B}_{1^-\,\alpha}^{\#1}$

$\mathcal{T}_{0^+}^{\#1}$

$\mathcal{T}_{0^+}^{\#1}\dagger$

| 0 |
|---|

$\mathcal{B}_{0^+}^{\#1}$

$\mathcal{B}_{0^+}^{\#1}\dagger$

| 0 |
|---|



**Quadratic pole**

| Pole residue: | $-\frac{1}{\alpha} > 0$ |
|---|---|
| Polarisations: | 2 |

| Unitarity conditions | $\alpha < 0$ |
|---|---|

(No massive particles)