

$$\begin{array}{c} \mathcal{A}_{0^+}^{\#1} \\ \mathcal{A}_{0^+}^{\#1} + \boxed{\alpha} \quad \mathcal{A}_{1^- \alpha}^{\#1} \\ \mathcal{A}_{1^- \alpha}^{\#1} + \boxed{-\frac{k^2 \alpha}{2} + \alpha} \end{array}$$

$$\begin{array}{c} \mathcal{T}_{0^+}^{\#1} \\ \mathcal{T}_{0^+}^{\#1} + \boxed{\frac{1}{\alpha}} \quad \mathcal{T}_{1^- \alpha}^{\#1} \\ \mathcal{T}_{1^- \alpha}^{\#1} + \boxed{\frac{1}{\text{Det}(1^-)}} \end{array}$$

Abbreviations used in matrices

$$\text{Det}(1^-) = -\frac{k^2 \alpha}{2} + \alpha$$

Lagrangian

$$\alpha \mathcal{A}_\alpha \mathcal{A}^\alpha - \frac{1}{4} \alpha \partial_\alpha \mathcal{A}_\beta \partial^\alpha \mathcal{A}^\beta + \frac{1}{4} \alpha \partial^\alpha \mathcal{A}^\beta \partial_\beta \mathcal{A}_\alpha + \frac{1}{4} \alpha \partial_\alpha \mathcal{A}_\beta \partial^\beta \mathcal{A}^\alpha - \frac{1}{4} \alpha \partial_\beta \mathcal{A}_\alpha \partial^\beta \mathcal{A}^\alpha$$

Added source term(s):	$\mathcal{A}^\alpha \mathcal{T}_\alpha$		
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Resolved pole(s)	# polarization(s)	Square mass	Residue
	3	$\frac{2 \alpha}{\alpha}$	$\frac{2}{\alpha}$
Resolved unitarity condition(s):	$\alpha > 0 \ \&& \ \alpha > 0$		