

$\mathcal{A}_{0^+}^{\#1}$	$\phi_{0^+}^{\#1}$	$\mathcal{B}_{0^+}^{\#1}$	$\mathcal{A}_{1^- \alpha}^{\#1}$	$\mathcal{B}_{1^- \alpha}^{\#1}$
$\mathcal{A}_{0^+}^{\#1} \dagger$	$k^2 \alpha$	$-\frac{1}{2} i k \epsilon$	0	
$\phi_{0^+}^{\#1} \dagger$	$\frac{i k \epsilon}{2}$	$k^2 \delta + \eta$	0	
$\mathcal{B}_{0^+}^{\#1} \dagger$	0	0	$\gamma_1 k^2 + \zeta$	
			$\mathcal{A}_{1^- \alpha}^{\#1} \dagger^\alpha$	0
			$\mathcal{B}_{1^- \alpha}^{\#1} \dagger^\alpha$	0

$\mathcal{T}_{0^+}^{\#1}$	$\rho_{0^+}^{\#1}$	$\mathcal{K}_{0^+}^{\#1}$	$\mathcal{T}_{1^- \alpha}^{\#1} \dagger^\alpha$	$\mathcal{K}_{1^- \alpha}^{\#1} \dagger^\alpha$
$\frac{\gamma_1 k^4 \delta + \zeta \eta + k^2 (\zeta \delta + \gamma_1 \eta)}{\text{Det}(0^+)}$	$\frac{i \gamma_1 k^3 \epsilon + i k \zeta \epsilon}{2 \text{Det}(0^+)}$	0		
$\frac{-i \gamma_1 k^3 \epsilon - i k \zeta \epsilon}{2 \text{Det}(0^+)}$	$\frac{\gamma_1 k^4 \alpha + k^2 \alpha \zeta}{\text{Det}(0^+)}$	0		
0	0	$\frac{4 k^4 \alpha \delta + k^2 (-\epsilon^2 + 4 \alpha \eta)}{4 \text{Det}(0^+)}$		
			$\mathcal{T}_{1^- \alpha}^{\#1} \dagger^\alpha$	0
			$\mathcal{K}_{1^- \alpha}^{\#1} \dagger^\alpha$	0 $\frac{1}{\zeta + k^2 \gamma}$

Abbreviations used in matrices

$$\gamma_1 = \beta + \gamma \quad \& \quad \text{Det}(0^+) = \frac{1}{4} k^2 (-\epsilon^2 + 4 \alpha (k^2 \delta + \eta)) (\zeta + k^2 (\beta + \gamma))$$

Lagrangian

$$\eta \phi^2 + \zeta \mathcal{B}_\alpha \mathcal{B}^\alpha + \epsilon \phi \partial_\alpha \mathcal{A}^\alpha + \delta \partial_\alpha \phi \partial^\alpha \phi + \gamma \partial_\alpha \mathcal{B}^\beta \partial^\alpha \mathcal{B}_\beta + \alpha \partial_\alpha \mathcal{A}^\alpha \partial_\beta \mathcal{A}^\beta + \beta \partial_\alpha \mathcal{B}^\alpha \partial_\beta \mathcal{B}^\beta$$

Added source term(s): $\phi \rho + \mathcal{A}^\alpha \mathcal{T}_\alpha + \mathcal{B}^\alpha \mathcal{K}_\alpha$

Source constraint(s): # constraint(s) Covariant form

$\mathcal{T}_{1^- \alpha}^{\#1} = 0$ 3 $\partial_\beta \partial^\alpha \mathcal{T}^\beta = \partial_\beta \partial^\beta \mathcal{T}^\alpha$

Total # constraint(s): 3

Resolved pole(s) # polarization(s) Square mass Residue

	1	$\frac{\epsilon^2 - 4 \alpha \eta}{4 \alpha \delta}$	$\frac{\alpha \epsilon^2 + \delta \epsilon^2 - 4 \alpha^2 \eta}{\alpha \delta \epsilon^2 - 4 \alpha^2 \delta \eta}$
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	1	$-\frac{\zeta}{\beta + \gamma}$	$\frac{1}{\beta + \gamma}$
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	3	$-\frac{\zeta}{\gamma}$	$-\frac{1}{\gamma}$
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Resolved unitarity condition(s):	(Demonstrably impossible)
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