

	$\mathcal{A}_0^{\#1}$	$\phi_0^{\#1}$	$\mathcal{B}_0^{\#1}$	
$\mathcal{A}_0^{\#1} \dagger$	$k^2 \alpha$	$-\frac{1}{2} i k \epsilon$	0	
$\phi_0^{\#1} \dagger$	$\frac{i k \epsilon}{2}$	$k^2 \delta + \eta$	0	
$\mathcal{B}_0^{\#1} \dagger$	0	0	$\Upsilon_1 k^2 + \zeta$	$\mathcal{A}_1^{\#1} \quad \mathcal{B}_1^{\#1}$
	$\mathcal{A}_1^{\#1} \dagger^\alpha$	0	0	
	$\mathcal{B}_1^{\#1} \dagger^\alpha$	0	$\zeta + k^2 \gamma$	

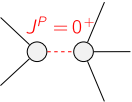
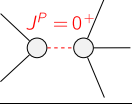
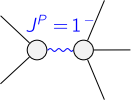
	$\mathcal{J}_0^{\#1}$	$\rho_0^{\#1}$	$\mathcal{K}_0^{\#1}$	
$\mathcal{J}_0^{\#1} \dagger$	$\frac{\Upsilon_1 k^4 \delta + \zeta \eta + k^2 (\zeta \delta + \Upsilon_1 \eta)}{\text{Det}(0^+)}$	$\frac{i \Upsilon_1 k^3 \epsilon + i k \zeta \epsilon}{2 \text{Det}(0^+)}$	0	
$\rho_0^{\#1} \dagger$	$\frac{-i \Upsilon_1 k^3 \epsilon - i k \zeta \epsilon}{2 \text{Det}(0^+)}$	$\frac{\Upsilon_1 k^4 \alpha + k^2 \alpha \zeta}{\text{Det}(0^+)}$	0	
$\mathcal{K}_0^{\#1} \dagger$	0	0	$\frac{4 k^4 \alpha \delta + k^2 (-\epsilon^2 + 4 \alpha \eta)}{4 \text{Det}(0^+)}$	$\mathcal{J}_1^{\#1} \quad \mathcal{K}_1^{\#1}$
	$\mathcal{J}_1^{\#1} \dagger^\alpha$	0	0	
	$\mathcal{K}_1^{\#1} \dagger^\alpha$	0	$\frac{1}{\zeta + k^2 \gamma}$	

Abbreviations used in matrices

$$\Upsilon_1 == \beta + \gamma \&\& \text{Det}(0^+) == \frac{1}{4} k^2 (-\epsilon^2 + 4 \alpha (k^2 \delta + \eta)) (\zeta + k^2 (\beta + \gamma))$$

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):	$\phi \rho + \mathcal{A}^\alpha \mathcal{J}_\alpha + \mathcal{B}^\alpha \mathcal{K}_\alpha$		
Source constraint(s)	# constraint(s)	Covariant form	
$\mathcal{J}_1^{\#1\alpha} == 0$	3	$\partial_\beta \partial^\alpha \mathcal{J}^\beta == \partial_\beta \partial^\beta \mathcal{J}^\alpha$	
Total # constraint(s):	3		
Resolved pole(s)	# polarization(s)	Square mass	Residue
	1	$\frac{\epsilon^2 - 4 \alpha \eta}{4 \alpha \delta}$	$\frac{\alpha \epsilon^2 + \delta \epsilon^2 - 4 \alpha^2 \eta}{\alpha \delta \epsilon^2 - 4 \alpha^2 \delta \eta}$
	1	$-\frac{\zeta}{\beta + \gamma}$	$\frac{1}{\beta + \gamma}$
	3	$-\frac{\zeta}{\gamma}$	$-\frac{1}{\gamma}$
Resolved unitarity condition(s):		(Demonstrably impossible)	