Lagrangian density

$$\frac{1}{2}\,\alpha\,\partial_{\beta}h^{\chi}{}_{\chi}\,\partial^{\beta}h^{\alpha}{}_{\alpha}+\beta\,\partial_{\alpha}h^{\alpha\beta}\,\partial_{\chi}h_{\beta}{}^{\chi}-\alpha\,\partial^{\beta}h^{\alpha}{}_{\alpha}\,\partial_{\chi}h_{\beta}{}^{\chi}-\frac{1}{2}\,\alpha\,\partial_{\chi}h_{\alpha\beta}\,\partial^{\chi}h^{\alpha\beta}$$

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

$$\begin{array}{c|cc} & \mathcal{T}^{\#1}_{0^+} & \mathcal{T}^{\#2}_{0^+} \\ \hline \mathcal{T}^{\#1}_{0^+}{}^{\dagger} & \frac{1}{\alpha k^2} & 0 \\ \mathcal{T}^{\#2}_{0^+}{}^{\dagger} & 0 & \frac{1}{(-\alpha+\beta)k^2} \end{array}$$

(No source constraints)

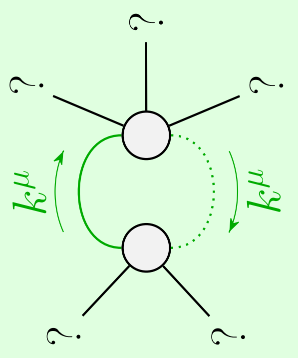
$$\begin{array}{c|c} & \mathcal{T}^{\#1}_{2^+\,\alpha\beta} \\ \hline \mathcal{T}^{\#1}_{2^+}{}^{\dagger\,\alpha\beta} & -\frac{2}{\alpha k^2} \end{array}$$

$$\begin{array}{c|cc} & h^{\#1}_{0^+} & h^{\#2}_{0^+} \\ \hline h^{\#1}_{0^+}{}^{\dagger} & \alpha k^2 & 0 \\ h^{\#2}_{0^+}{}^{\dagger} & 0 & (-\alpha+\beta)k^2 \end{array}$$

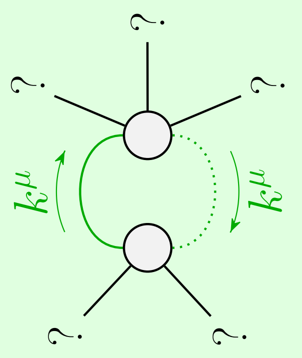
$$\begin{array}{c|c} & h^{\#1}_{1^-\,\alpha} \\ \hline h^{\#1}_{1^-}{}^{\dagger\,\alpha} & \frac{1}{2}(-\alpha+\beta)k^2 \end{array}$$

$$\begin{array}{c|c} & h^{\#1}_{2^+\,\alpha\beta} \\ \hline h^{\#1}_{2^+}{}^{\dagger\,\alpha\beta} & -\frac{\alpha k^2}{2} \end{array}$$

$$\begin{array}{c|c} & \mathcal{T}^{\#1}_{1^-\,\alpha} \\ \hline \mathcal{T}^{\#1}_{1^-}{}^{\dagger\,\alpha} & -\frac{2}{(\alpha-\beta)k^2} \end{array}$$



Quartic pole	
Pole residue:	$0<\frac{6\,\alpha+3\,\beta-\sqrt{3}\,\sqrt{12\,\alpha^2+12\,\alpha\,\beta+19\,\beta^2+64\,(\alpha-\beta)^2\,p^2}}{\alpha\,(\alpha-\beta)}$ && $\frac{6\,\alpha+3\,\beta-\sqrt{3}\,\sqrt{12\,\alpha^2+12\,\alpha\,\beta+19\,\beta^2+64\,(\alpha-\beta)^2\,p^2}}{\alpha\,(\alpha-\beta)}>0$
Polarisations:	1

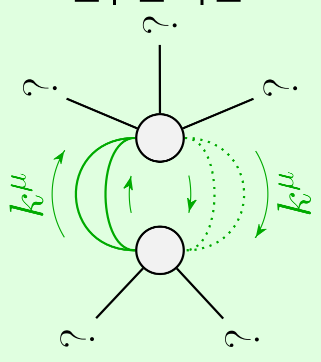


Quartic pole	
Pole residue:	$0<\frac{6\,\alpha+3\,\beta+\sqrt{3}\,\sqrt{12\,\alpha^2+12\,\alpha\,\beta+19\,\beta^2+64\,(\alpha-\beta)^2\,p^2}}{\alpha\,(\alpha-\beta)}$ && $\frac{6\,\alpha+3\,\beta+\sqrt{3}\,\sqrt{12\,\alpha^2+12\,\alpha\,\beta+19\,\beta^2+64\,(\alpha-\beta)^2\,p^2}}{\alpha\,(\alpha-\beta)}>0$
Polarisations:	1

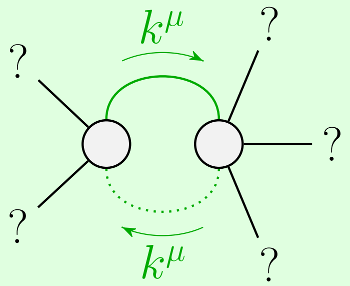
(No massive particles)

Unitarity conditions

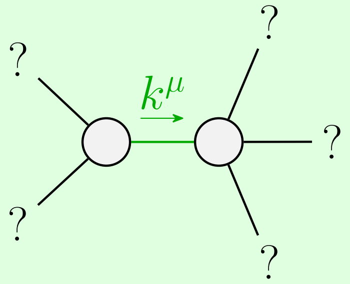
(Unitarity is demonstrably impossible)



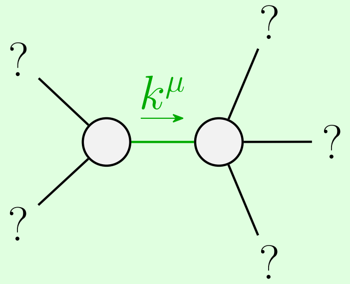
Hexic pole	
Pole residue:	$0<\frac{2\,\alpha+\beta}{\alpha^2-\alpha\,\beta}$ && $\frac{2\,\alpha+\beta}{\alpha^2-\alpha\,\beta}>0$
Polarisations:	1



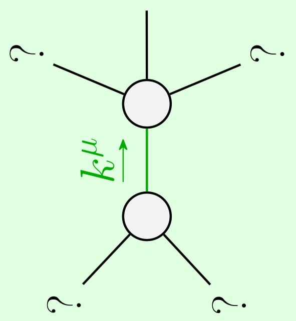
Quartic pole	
Pole residue:	$0<\frac{\beta}{\alpha^2-\alpha\,\beta}$ && $\frac{\beta}{\alpha^2-\alpha\,\beta}>0$
Polarisations:	2



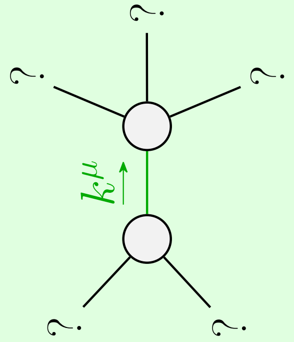
Quadratic pole	
Pole residue:	$-\frac{2\,\alpha-\beta+\sqrt{20\,\alpha^2-36\,\alpha\,\beta+17\,\beta^2}}{\alpha^2-\alpha\,\beta}>0$
Polarisations:	1



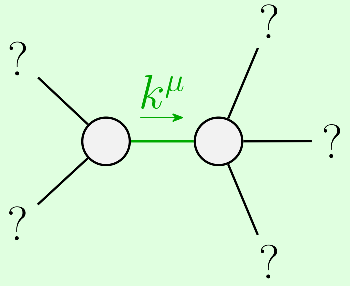
Quadratic pole	
Pole residue:	$-\frac{1}{\alpha}+\frac{1}{-\alpha+\beta}>0$
Polarisations:	2



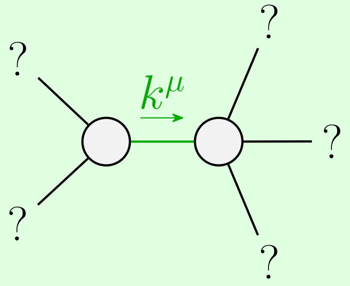
Quadratic pole	
Pole residue:	$\frac{1}{\alpha}+\frac{1}{\alpha-\beta}>0$
Polarisations:	2



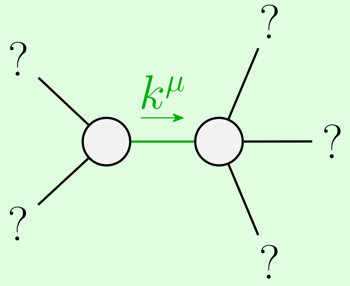
Quadratic pole	
Pole residue:	$-\frac{1}{\alpha}>0$
Polarisations:	2



Quadratic pole	
Pole residue:	$\frac{-2\,\alpha+\beta+\sqrt{20\,\alpha^2-36\,\alpha\,\beta+17\,\beta^2}}{\alpha\,(\alpha-\beta)}>0$
Polarisations:	1



Quadratic pole	
Pole residue:	$-\frac{1}{\alpha}+\frac{5}{-\alpha+\beta}>0$
Polarisations:	1



Quadratic pole	
Pole residue:	$\frac{1}{\alpha}+\frac{5}{\alpha-\beta}>0$
Polarisations:	1