$h_{3^-}^{\#1}{}^{\dagger}$ \ $h_{3^-}^{\#1}{}_{\alpha\beta\chi}$	$\alpha^2\,(\beta-k)\,(\beta+k)$

$\mathcal{F}_{3^-}^{\#1}{}^{\dagger}$ \ $\mathcal{F}_{3^-}^{\#1}{}_{\alpha\beta\chi}$	$\frac{1}{\alpha^2\,(\beta^2-k^2)}$

$h_{1^-}^{\#1}{}^{\dagger}$ \ $h_{1^-}^{\#2}{}_{\alpha}$	$-\sqrt{5}\,\alpha^2\,\beta^2$
0	$4\,\alpha^2\,(-\beta^2+k^2)$
$-\sqrt{5}\,\alpha^2\,\beta^2$	

$h_{0^+}^{\#1}{}^{\dagger}$ \ $h_{0^+}^{\#1}$	$h_{0^+}^{\#2}$	$\phi_{0^+}^{\#1}$
$h_{0^+}^{\#2}{}^{\dagger}$	$\frac{3}{2}\,\alpha^2\,(-2\,\beta^2+k^2)$	$\frac{1}{2}\,\alpha^2\,(-4\,\beta^2+9\,k^2)$	$\frac{1}{2}\,i\,\alpha\,\beta\,k$
$\phi_{0^+}^{\#1}{}^{\dagger}$	$-\frac{1}{2}\,i\,\alpha\,\beta\,k$	$-\frac{1}{2}\,i\,\alpha\,\beta\,k$	$2\,\beta^2-\frac{k^2}{2}$

$h_{2^+}^{\#1}{}^{\dagger}$ \ $h_{2^+}^{\#1}{}_{\alpha\beta}$	$\alpha^2\,\beta^2$

$\mathcal{F}_{2^+}^{\#1}{}^{\dagger}$ \ $\mathcal{F}_{2^+}^{\#1}{}_{\alpha\beta}$	$\frac{1}{\alpha^2\,\beta^2}$

$\mathcal{F}_{1^-}^{\#1}{}^{\dagger}$ \ $\mathcal{F}_{1^-}^{\#1}{}_{\alpha}$	$\mathcal{F}_{1^-}^{\#2}{}_{\alpha}$
$\mathcal{F}_{1^-}^{\#2}{}^{\dagger}$	$\frac{4\,(\beta-k)\,(\beta+k)}{5\,\alpha^2\,\beta^4}$	$-\frac{1}{\sqrt{5}\,\alpha^2\,\beta^2}$
	$-\frac{1}{\sqrt{5}\,\alpha^2\,\beta^2}$	0

(No source constraints)

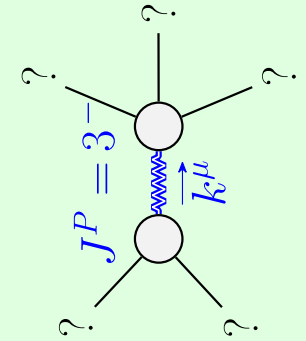
$\mathcal{F}_{0^+}^{\#1}{}^{\dagger}$ \ $\mathcal{F}_{0^+}^{\#1}$	$\mathcal{F}_{0^+}^{\#2}$	$\rho_{0^+}^{\#1}$
$\mathcal{F}_{0^+}^{\#2}{}^{\dagger}$	$-\frac{24\,\beta^4-17\,\beta^2\,k^2+3\,k^4}{40\,\alpha^2\,\beta^6}$	$\frac{i\,k\,(\beta-k)\,(\beta+k)}{20\,\alpha\,\beta^5}$
$\rho_{0^+}^{\#1}{}^{\dagger}$	$\frac{16\,\beta^4-7\,\beta^2\,k^2+k^4}{40\,\alpha^2\,\beta^6}$	$\frac{i\,k\,(-\beta^2+k^2)}{20\,\alpha\,\beta^5}$	$\frac{5\,\beta^2+k^2}{10\,\beta^4}$
	$-\frac{i\,k\,(\beta^2+3\,k^2)}{20\,\alpha\,\beta^5}$	$\frac{i\,k\,(\beta^2+3\,k^2)}{20\,\alpha\,\beta^5}$	$\frac{16\,\beta^4-39\,\beta^2\,k^2+9\,k^4}{40\,\alpha^2\,\beta^6}$

Unitarity conditions

$\alpha < 0 \,||\, \alpha > 0 \;\&\&\; \beta < 0 \,||\, \beta > 0$

(No massless particles)

Massive particle	$\frac{1}{\alpha^2} > 0$
Pole residue:	7
Polarisations:	$\beta^2 > 0$
Square mass:	3
Spin:	Odd
Parity:	



Lagrangian density

$$2\,\beta^2\,\phi^2+\alpha^2\,\beta^2\,h_{\alpha\mu\nu}\,h^{\alpha\mu\nu}-3\,\alpha^2\,\beta^2\,h^{\alpha}{}_{\alpha}{}^{\mu}\,h_{\mu}{}^{\nu}{}_{\nu}+$$
$$\frac{1}{2}\,\phi\,\partial_{\alpha}\partial^{\alpha}\phi+\alpha\,\beta\,h_{\alpha}{}^{\mu}{}_{\mu}\,\partial^{\alpha}\phi-\frac{3}{2}\,\alpha^2\,h^{\alpha}{}_{\alpha}{}^{\mu}\,\partial_{\rho}\partial_{\mu}h^{\nu}{}_{\nu}{}^{\rho}-$$
$$3\,\alpha^2\,h^{\alpha\mu\nu}\,\partial_{\rho}\partial_{\nu}h_{\alpha\mu}{}^{\rho}+6\,\alpha^2\,h^{\alpha}{}_{\alpha}{}^{\mu}\,\partial_{\rho}\partial_{\nu}h_{\mu}{}^{\nu\rho}+$$
$$\alpha^2\,h^{\alpha\mu\nu}\,\partial_{\rho}\partial^{\rho}h_{\alpha\mu\nu}-3\,\alpha^2\,h^{\alpha}{}_{\alpha}{}^{\mu}\,\partial_{\rho}\partial^{\rho}h_{\mu}{}^{\nu}{}_{\nu}$$

Added source term: $\phi\,\rho+h^{\alpha\beta\chi}\,\mathcal{F}_{\alpha\beta\chi}$