

Wave operator and propagator

	$1^+ \sigma^I_{a\beta}$	$1^+ \sigma^+_{a\beta}$	$1^+ \tau^I_{a\beta}$	$1^+ \sigma^I_\alpha$	$1^+ \sigma^+_\alpha$	$1^+ \tau^I_\alpha$	$1^+ \tau^+_\alpha$
$1^+ \sigma^I \dagger^{\alpha\beta}$	$\frac{8(2\beta_1\beta_2)_{\frac{1}{2}}(2\beta_1+\beta_2)_{\frac{1}{2}}+4(\alpha_1\alpha_2+4\alpha_4\alpha_6)(2\beta_1\beta_2)_{\frac{1}{2}}k^2+4\beta_1(M\eta^2)_{\frac{1}{2}}+10\beta_2(M\eta^2)_{\frac{1}{2}}(M\eta^2)^2}{16(\beta_1\beta_2)_{\frac{1}{2}}(2\beta_1+\beta_2)_{\frac{1}{2}}+4(\alpha_1\alpha_2+4\alpha_4\alpha_6)(2\beta_1\beta_2)_{\frac{1}{2}}k^2+4\beta_1(M\eta^2)_{\frac{1}{2}}+10\beta_2(M\eta^2)_{\frac{1}{2}}(M\eta^2)^2}$	$\frac{2\sqrt{2}(4\beta_1\beta_2+M\eta^2))_{\frac{1}{2}}}{(1+k^2)(16(\beta_1\beta_2)_{\frac{1}{2}}(2\beta_1+\beta_2)_{\frac{1}{2}}+4(\alpha_1\alpha_2+4\alpha_4\alpha_6)(2\beta_1\beta_2)_{\frac{1}{2}}k^2+4\beta_1(M\eta^2)_{\frac{1}{2}}+10\beta_2(M\eta^2)_{\frac{1}{2}}(M\eta^2)^2)}$	$\frac{2i\sqrt{2}k(4\beta_1\beta_2+M\eta^2))_{\frac{1}{2}}}{(1+k^2)(16(\beta_1\beta_2)_{\frac{1}{2}}(2\beta_1+\beta_2)_{\frac{1}{2}}+4(\alpha_1\alpha_2+4\alpha_4\alpha_6)(2\beta_1\beta_2)_{\frac{1}{2}}k^2+4\beta_1(M\eta^2)_{\frac{1}{2}}+10\beta_2(M\eta^2)_{\frac{1}{2}}(M\eta^2)^2)}$	0	0	0	0
$1^+ \sigma^+ \dagger^{\alpha\beta}$	$\frac{2\sqrt{2}(4\beta_1\beta_2+M\eta^2))_{\frac{1}{2}}}{(1+k^2)(16(\beta_1\beta_2)_{\frac{1}{2}}(2\beta_1+\beta_2)_{\frac{1}{2}}+4(\alpha_1\alpha_2+4\alpha_4\alpha_6)(2\beta_1\beta_2)_{\frac{1}{2}}k^2+4\beta_1(M\eta^2)_{\frac{1}{2}}+10\beta_2(M\eta^2)_{\frac{1}{2}}(M\eta^2)^2)}$	$\frac{2(12\beta_1\beta_2+2(\alpha_1\alpha_2+4\alpha_4\alpha_6)k^2+4\beta_1(M\eta^2)_{\frac{1}{2}}+10\beta_2(M\eta^2)_{\frac{1}{2}}(M\eta^2)^2))_{\frac{1}{2}}}{(1+k^2)^2(16(\beta_1\beta_2)_{\frac{1}{2}}(2\beta_1+\beta_2)_{\frac{1}{2}}+4(\alpha_1\alpha_2+4\alpha_4\alpha_6)(2\beta_1\beta_2)_{\frac{1}{2}}k^2+4\beta_1(M\eta^2)_{\frac{1}{2}}+10\beta_2(M\eta^2)_{\frac{1}{2}}(M\eta^2)^2)}$	$\frac{2i\sqrt{2}(12\beta_1\beta_2+2(\alpha_1\alpha_2+4\alpha_4\alpha_6)k^2+4\beta_1(M\eta^2)_{\frac{1}{2}}+10\beta_2(M\eta^2)_{\frac{1}{2}}(M\eta^2)^2))_{\frac{1}{2}}}{(1+k^2)^2(16(\beta_1\beta_2)_{\frac{1}{2}}(2\beta_1+\beta_2)_{\frac{1}{2}}+4(\alpha_1\alpha_2+4\alpha_4\alpha_6)(2\beta_1\beta_2)_{\frac{1}{2}}k^2+4\beta_1(M\eta^2)_{\frac{1}{2}}+10\beta_2(M\eta^2)_{\frac{1}{2}}(M\eta^2)^2)}$	0	0	0	0
$1^+ \tau^I \dagger^{\alpha\beta}$	$\frac{2i\sqrt{2}k(4\beta_1\beta_2+M\eta^2))_{\frac{1}{2}}}{(1+k^2)(16(\beta_1\beta_2)_{\frac{1}{2}}(2\beta_1+\beta_2)_{\frac{1}{2}}+4(\alpha_1\alpha_2+4\alpha_4\alpha_6)(2\beta_1\beta_2)_{\frac{1}{2}}k^2+4\beta_1(M\eta^2)_{\frac{1}{2}}+10\beta_2(M\eta^2)_{\frac{1}{2}}(M\eta^2)^2)}$	$\frac{2i\sqrt{2}(12\beta_1\beta_2+2(\alpha_1\alpha_2+4\alpha_4\alpha_6)k^2+4\beta_1(M\eta^2)_{\frac{1}{2}}+10\beta_2(M\eta^2)_{\frac{1}{2}}(M\eta^2)^2))_{\frac{1}{2}}}{(1+k^2)^2(16(\beta_1\beta_2)_{\frac{1}{2}}(2\beta_1+\beta_2)_{\frac{1}{2}}+4(\alpha_1\alpha_2+4\alpha_4\alpha_6)(2\beta_1\beta_2)_{\frac{1}{2}}k^2+4\beta_1(M\eta^2)_{\frac{1}{2}}+10\beta_2(M\eta^2)_{\frac{1}{2}}(M\eta^2)^2)}$	$\frac{2k^2(12\beta_1\beta_2+2(\alpha_1\alpha_2+4\alpha_4\alpha_6)k^2+4\beta_1(M\eta^2)_{\frac{1}{2}}+10\beta_2(M\eta^2)_{\frac{1}{2}}(M\eta^2)^2))_{\frac{1}{2}}}{(1+k^2)^2(16(\beta_1\beta_2)_{\frac{1}{2}}(2\beta_1+\beta_2)_{\frac{1}{2}}+4(\alpha_1\alpha_2+4\alpha_4\alpha_6)(2\beta_1\beta_2)_{\frac{1}{2}}k^2+4\beta_1(M\eta^2)_{\frac{1}{2}}+10\beta_2(M\eta^2)_{\frac{1}{2}}(M\eta^2)^2)}$	0	0	0	0
$1^+ \sigma^I \dagger^\alpha$	0	0	0	$4(\frac{1}{12\beta_1+6\beta_2-3(M\eta^2)_{\frac{1}{2}}}+\frac{1}{6\beta_1+3(\beta_2+3\beta_3+(M\eta^2)_{\frac{1}{2}})+\frac{\epsilon^2}{8}})$	$\frac{4\sqrt{2}(72\beta_1+36(M\eta^2)_{\frac{1}{2}}+k^2\epsilon)_{\frac{1}{2}}}{3(1+2k^2)(4\beta_1+2\beta_2-(M\eta^2)_{\frac{1}{2}})(24(2\beta_1+\beta_2+3\beta_3+(M\eta^2)_{\frac{1}{2}})+k^2\epsilon)}$	0	$\frac{8i\sqrt{2}(72\beta_1+36(M\eta^2)_{\frac{1}{2}}+k^2\epsilon)_{\frac{1}{2}}}{3(1+2k^2)(4\beta_1+2\beta_2-(M\eta^2)_{\frac{1}{2}})(24(2\beta_1+\beta_2+3\beta_3+(M\eta^2)_{\frac{1}{2}})+k^2\epsilon)}$
$1^+ \sigma^+ \dagger^\alpha$	0	0	0	$\frac{4\sqrt{2}(72\beta_1+36(M\eta^2)_{\frac{1}{2}}+k^2\epsilon)_{\frac{1}{2}}}{3(1+2k^2)(4\beta_1+2\beta_2-(M\eta^2)_{\frac{1}{2}})(24(2\beta_1+\beta_2+3\beta_3+(M\eta^2)_{\frac{1}{2}})+k^2\epsilon)}$	$\frac{8(\frac{1}{4\beta_1+2\beta_2-(M\eta^2)_{\frac{1}{2}}}+\frac{1}{8\beta_1+4\beta_2+3\beta_3+(M\eta^2)_{\frac{1}{2}}})_{\frac{1}{2}}\frac{\epsilon^2}{e}}{3(1+2k^2)^2}$	0	$\frac{8i\sqrt{2}k(18(4\beta_1+2\beta_2+4\beta_3+(M\eta^2)_{\frac{1}{2}})+k^2\epsilon)_{\frac{1}{2}}}{3(1+2k^2)^2(4\beta_1+2\beta_2-(M\eta^2)_{\frac{1}{2}})(24(2\beta_1+\beta_2+3\beta_3+(M\eta^2)_{\frac{1}{2}})+k^2\epsilon)}$
$1^+ \tau^I \dagger^\alpha$	0	0	0	0	0	0	0
$1^+ \tau^+ \dagger^\alpha$	0	0	0	0	$\frac{8i\sqrt{2}(18k(4\beta_1+2\beta_2+4\beta_3+(M\eta^2)_{\frac{1}{2}})+k^3\epsilon)_{\frac{1}{2}}}{3(1+2k^2)(4\beta_1+2\beta_2-(M\eta^2)_{\frac{1}{2}})(24(2\beta_1+\beta_2+3\beta_3+(M\eta^2)_{\frac{1}{2}})+k^2\epsilon)}$	0	$\frac{16k^2(\frac{1}{4\beta_1+2\beta_2-(M\eta^2)_{\frac{1}{2}}}+\frac{1}{8\beta_1+4\beta_2+3\beta_3+(M\eta^2)_{\frac{1}{2}}})_{\frac{1}{2}}\frac{\epsilon^2}{e}}{3(1+2k^2)^2}$

	$1^+ \mathcal{A}_{a\beta}$	$1^+ \mathcal{A}^+_{a\beta}$	$1^+ f^1_{a\beta}$	$1^+ \mathcal{A}^1_{\alpha}$	$1^+ \mathcal{A}^+_{\alpha}$	$1^+ f^1_{\alpha}$	$1^+ f^+_{\alpha}$
$1^+ \mathcal{A}^+_{\uparrow a\beta}$	$\frac{1}{4} (12 \beta_1 - 10 \beta_2 + 2 (\alpha_2 - \alpha_3 + 4 \alpha_4 - 4 \alpha_6) k^2 + (\mathcal{M}_{\mathcal{P}})^2)$	$\frac{4\beta_1 - 6\beta_2 + (\mathcal{M}_{\mathcal{P}})^2}{2\sqrt{2}}$	$\frac{i \kappa 4\beta_1 - 6\beta_2 + (\mathcal{M}_{\mathcal{P}})^2}{2\sqrt{2}}$	0	0 0		0
$1^+ \mathcal{A}^+_{\uparrow a\beta}$	$\frac{4\beta_1 - 6\beta_2 + (\mathcal{M}_{\mathcal{P}})^2}{2\sqrt{2}}$	$2\beta_1 - \beta_2$	$i(2\beta_1 - \beta_2)k$		0 0		0
$1^+ f^1_{\uparrow a\beta}$	$-\frac{i \kappa 4\beta_1 - 6\beta_2 + (\mathcal{M}_{\mathcal{P}})^2}{2\sqrt{2}}$	$-i(2\beta_1 - \beta_2)k$	$(2\beta_1 - \beta_2)k^2$	0	0 0		0
$1^+ \mathcal{A}^1_{\uparrow \alpha}$	0	0	0	$\beta_1 + \frac{\beta_2}{2} + \beta_3 + \frac{(\mathcal{M}_{\mathcal{P}})^2}{4} + \frac{k^2 \xi}{72}$	$-\frac{72\beta_3 + 36(\mathcal{M}_{\mathcal{P}})^2 + k^2 \xi}{72\sqrt{2}}$	0	$-\frac{1}{72} i \kappa 72\beta_3 + 36(\mathcal{M}_{\mathcal{P}})^2 + k^2 \xi$
$1^+ \mathcal{A}^+_{\uparrow \alpha}$	0	0	0	$-\frac{72\beta_3 + 36(\mathcal{M}_{\mathcal{P}})^2 + k^2 \xi}{72\sqrt{2}}$	$\beta_1 + \frac{\beta_2}{2} + \frac{k^2 \xi}{144}$	0	$\frac{i \kappa 72(2\beta_1 + \beta_2 + \beta_3) + k^2 \xi}{72\sqrt{2}}$
$1^+ f^1_{\uparrow \alpha}$	0	0	0	0	0 0		0
$1^+ f^+_{\uparrow \alpha}$	0	0	0	$\frac{1}{72} i \kappa 72\beta_3 + 36(\mathcal{M}_{\mathcal{P}})^2 + k^2 \xi$	$-\frac{i \kappa 72(2\beta_1 + \beta_2 + \beta_3) + k^2 \xi}{72\sqrt{2}}$	0	$(2\beta_1 + \beta_2 + \beta_3)k^2 + \frac{k^4 \xi}{72}$

Spin-parity form	Covariant form	Multiplicities
$0^+ \tau^+ = 0$	$\partial_\beta \partial_\alpha \tau (\Delta + \mathcal{K})^{\alpha\beta} = 0$	1
$2 i \, k^+_\tau \sigma^+_\tau = 0$	$\partial_\chi \partial_\beta \partial^\alpha \tau (\Delta + \mathcal{K})^{\beta\chi} = \partial_\chi \partial^\chi \partial_\beta \tau (\Delta + \mathcal{K})^{\alpha\beta} + 2 \, \partial_\delta \partial^\delta \partial_\chi \partial_\beta \sigma^{\alpha\chi}$	3
$1^-_\tau t^+_\tau = 0$	$\partial_\chi \partial_\beta \partial^\alpha \tau (\Delta + \mathcal{K})^{\beta\chi} = \partial_\chi \partial^\chi \partial_\beta \tau (\Delta + \mathcal{K})^{\beta\alpha}$	3
$i \, k \, 1^+_\sigma \sigma^+_\sigma + 1^+_\tau t^+_\tau = 0$	$\partial_\chi \partial^\alpha \tau (\Delta + \mathcal{K})^{\beta\chi} + \partial_\chi \partial^\beta \tau (\Delta + \mathcal{K})^{\chi\alpha} +$ $\partial_\chi \partial^\chi \tau (\Delta + \mathcal{K})^{\alpha\beta} + 2 \, \partial_\delta \partial_\chi \partial_\sigma \sigma^{\chi\delta\beta} + 2 \, \partial_\delta \partial^\delta \partial_\chi \sigma^{\chi\alpha\beta} =$ $\partial_\chi \partial^\alpha \tau (\Delta + \mathcal{K})^{\chi\beta} + \partial_\chi \partial^\beta \tau (\Delta + \mathcal{K})^{\alpha\chi} + \partial_\chi \partial^\chi \tau (\Delta + \mathcal{K})^{\beta\alpha} + 2 \, \partial_\delta \partial_\chi \partial_\beta \sigma^{\chi\alpha\delta}$	3
Total expected gauge generators:		10

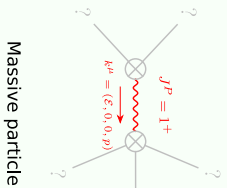
	$\begin{smallmatrix} 0^+ \\ \vdots \\ \sigma^1 \end{smallmatrix}$	$\begin{smallmatrix} 0^+ \\ \vdots \\ \tau^1 \end{smallmatrix}$	$\begin{smallmatrix} 0^+ \\ \vdots \\ \tau^1 \end{smallmatrix}$	$\begin{smallmatrix} 0^+ \\ \vdots \\ \sigma^1 \end{smallmatrix}$
$\begin{smallmatrix} 0^+ \\ \vdots \\ \sigma^1 \end{smallmatrix} \dagger$	$\frac{1}{2(3 \frac{1}{3} \alpha + \frac{1}{4} \alpha + \frac{1}{6} \alpha) k^2 + \frac{1}{2} (M_{\eta^2})^2 - (-1 \frac{(M_{\eta^2})^2}{2 \beta_1 + \beta_2 + \beta_3})}$	$-\frac{i \sqrt{2} (2 \beta_1 + \beta_2 + 3 \beta_3 + (M_{\eta^2})^2)}{k (-4(3 \frac{1}{3} \alpha + \frac{1}{4} \alpha + \frac{1}{6} \alpha) (2 \beta_1 + \beta_2 + 3 \beta_3) k^2 + (2 \beta_1 + \beta_2 + 3 \beta_3) (M_{\eta^2})^2 + (M_{\eta^2})^2)}$	0	0
$\begin{smallmatrix} 0^+ \\ \vdots \\ \tau^1 \end{smallmatrix} \dagger$	$\frac{i \sqrt{2} (2 \beta_1 + \beta_2 + 3 \beta_3 + (M_{\eta^2})^2)}{k ((M_{\eta^2})^2)^2 + (2 \beta_1 + \beta_2 + 3 \beta_3) (-4(3 \frac{1}{3} \alpha + \frac{1}{4} \alpha + \frac{1}{6} \alpha) k^2 + (M_{\eta^2})^2)}$	$-\frac{2 \beta_1 + \beta_2 + 3 \beta_3 + 4(3 \frac{1}{3} \alpha + \frac{1}{4} \alpha + \frac{1}{6} \alpha) k^2 + (M_{\eta^2})^2}{k^2 (-4(3 \frac{1}{3} \alpha + \frac{1}{4} \alpha + \frac{1}{6} \alpha) (2 \beta_1 + \beta_2 + 3 \beta_3) k^2 + (2 \beta_1 + \beta_2 + 3 \beta_3) (M_{\eta^2})^2 + (M_{\eta^2})^2)}$	0	0
$\begin{smallmatrix} 0^+ \\ \vdots \\ \tau^1 \end{smallmatrix} \dagger$	0	0	0	0
$\begin{smallmatrix} 0^+ \\ \vdots \\ \sigma^1 \end{smallmatrix} \dagger$	0	0	0	$\frac{2}{8 \beta_1 - 8 \beta_2 + 4(1 \frac{1}{2} \alpha + 3 \frac{1}{4} \alpha) k^2 + (M_{\eta^2})^2}$

[illegible]

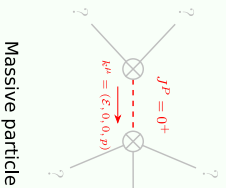
[illegible]

Massive and massless spectra

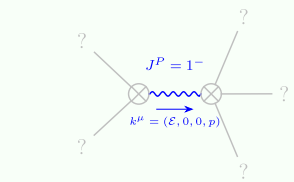
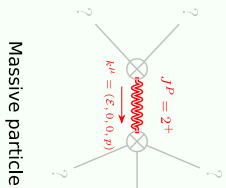
Pole residue:	$\begin{aligned} & ((\alpha_1^2 - \alpha_2^2 + 4\alpha_1^2 - 80\beta_1^2 + 44\beta_2^2 + 8\beta_1(M_{\text{H}^2})^2 - 12\beta_2(M_{\text{H}^2})^2 + (M_{\text{H}^2})^3) - \\ & \alpha_1(48\beta_1^2 - 80\beta_1\beta_2 + 44\beta_2^2 + 8\beta_1(M_{\text{H}^2})^2 - 12\beta_2(M_{\text{H}^2})^2 + (M_{\text{H}^2})^3) + \\ & 4\alpha_2(48\beta_1^2 - 80\beta_1\beta_2 + 44\beta_2^2 + 8\beta_1(M_{\text{H}^2})^2 - 12\beta_2(M_{\text{H}^2})^2 + (M_{\text{H}^2})^3) - \\ & 4\alpha_3(48\beta_1^2 - 80\beta_1\beta_2 + 44\beta_2^2 + 8\beta_1(M_{\text{H}^2})^2 - 12\beta_2(M_{\text{H}^2})^2 + (M_{\text{H}^2})^3) - \\ & 2(2\beta_1 - \beta_2)(32\beta_1^2 - 16\beta_2^2 + 10\beta_2(M_{\text{H}^2})^2 - (M_{\text{H}^2})^3 - 4\beta_1(4\beta_2^2 + (M_{\text{H}^2})^3))) \\ & ((\alpha_2^2 - \alpha_3^2 + 4\alpha_1^2 - 4\alpha_2^2)(2\beta_1^2 - \beta_2^2) \\ & (8\alpha_1\beta_1^2 - 8\alpha_2\beta_1^2 + 32\alpha_1\beta_1 - 32\alpha_2\beta_1 - 32\beta_1^2 - 4\alpha_2\beta_1 + 4\alpha_1\beta_2 - 16\alpha_2\beta_1 + \\ & 16\alpha_1\beta_2 + 16\beta_1^2 + 16\beta_2^2 + 4\beta_1(M_{\text{H}^2})^2 - 10\beta_2(M_{\text{H}^2})^2 + (M_{\text{H}^2})^3)) > 0 \end{aligned}$
Squaremass:	$\frac{-32\alpha_1^2 - 16\alpha_2^2 - 10\beta_2(M_{\text{H}^2})^2 + 4\alpha_1^2(4\beta_1^2 - \beta_2^2)}{4(\alpha_2^2 - \alpha_3^2 + 4\alpha_1^2 - 4\alpha_2^2)(2\beta_1^2 - \beta_2^2)} > 0$
Spin:	1
Parity:	Even



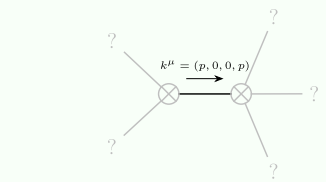
Pole residue:	$(-4 \alpha_1 \beta_1 + 4 \alpha_2 \beta_2 - 2 \alpha_3 \beta_3 + 2 \alpha_4 \beta_4 - 6 \alpha_5 \beta_5 + 6 \alpha_6 \beta_6 - 2 \alpha_7 (M_{H^2})^2 + 2 \alpha_8 (M_{H^2})^2 + 2 \alpha_9 (M_{H^2})^2 + 2 \alpha_{10} (M_{H^2})^2 + 3 \beta_3 (M_{H^2})^2 + 6 \alpha_1 (2 \beta_1 + \beta_2 + \beta_3 + \beta_4 + \beta_5 + \beta_6 + (M_{H^2})^2)) / (2(3 \alpha_1 + \alpha_2 - \alpha_3 + \alpha_4 - 6 \beta_1 + \beta_2 + \beta_3) (M_{H^2})^2) > 0$
Square mass:	$\frac{(M_{H^2})^2 (2 \beta_1 + \beta_2 + 3 \beta_3 + (M_{H^2})^2)}{4(3 \alpha_1 + \alpha_2 - \alpha_3 + \alpha_4 - 6 \beta_1 + \beta_2 + 3 \beta_3)} > 0$
Spin:	0
Parity:	Even



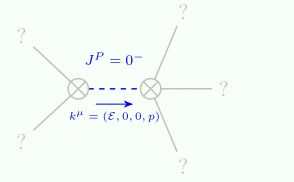
Polesidue:	$\frac{-3\alpha_1(4\beta_1^2+2\beta_1-4)(\alpha_1\eta^2)+\alpha_2(4\beta_1+2\beta_1-4)(\alpha_1\eta^2)+2(8\beta_1^2-6\alpha_1\beta_1-4\alpha_1\beta_1-4\beta_1^2-2\alpha_1^2)(\alpha_1\eta^2)+2\beta_1^2(\alpha_1\eta^2)+2\beta_1^2(\alpha_1\eta^2)+5\alpha_1^2(\alpha_1\eta^2)}{(3\alpha_1\alpha_2-4\alpha_1\alpha_2\alpha_1^2)(2\beta_1^2+\beta_1^2)(\alpha_1\eta^2)} >$
	0
Square mass:	$\frac{(4\beta_1+2\beta_1-4)(\alpha_1\eta^2)}{4(3\alpha_1^2-4\alpha_1^2+4\alpha_1-4\alpha_1^2)(2\beta_1^2+\beta_1^2)} > 0$
Spin:	2
Parity:	Even



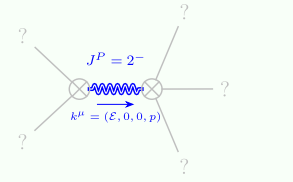
Massive particle	
Pole residue:	$-\frac{48(64\beta_1+32\beta_2+96\beta_3+32(\mathcal{M}_{\Pi^+})^2)\xi}{(96\beta_1+48\beta_2+144\beta_3+48(\mathcal{M}_{\Pi^+})^2)\xi}\xi > 0$
Square mass:	$-\frac{24(2\beta_1+\beta_2+3\beta_3+(\mathcal{M}_{\Pi^+})^2)}{\xi^3} > 0$
Spin:	1
Parity:	Odd



Massless particle	
Poleresidue:	$\frac{1}{(M_{Pl}^2)} > 0$
Polarisations:	2



Massive particle		Massive particle	
Pole residue:	$-\frac{1}{2(\alpha_1+3\alpha_2)} > 0$	Poleresidue:	$\frac{1}{\alpha_2} > 0$
Square mass:	$-\frac{8\beta_1-8\beta_2+(\mathcal{M}_{\eta^2})^2}{4(\alpha_1+3\alpha_2)} > 0$	Square mass:	$\frac{4\beta_1+2\beta_2-(\mathcal{M}_{\eta^2})^2}{4\alpha_2} > 0$
Spin:	0	Spin:	2
Parity:	Odd	Parity:	Odd



Unitarity conditions

(Demonstrably impossible)