PSALTer results panel

Wave operator and propagator

	$1^{+}\sigma^{\parallel}{}_{\alpha\beta}$	$1^{+}\sigma^{\perp}{}_{\alpha\beta}$	$1^{+}\tau^{\parallel}{}_{\alpha\beta}$	$1^{-}\sigma^{\parallel}{}_{\alpha}$	$1^{-}\sigma^{\perp}{}_{\alpha}$	$1^{-}\tau^{\parallel}{}_{\alpha}$	$1^{-}\tau^{\perp}{}_{\alpha}$
$1^{+}\sigma^{\parallel}\dagger^{\alpha\beta}$	$\frac{8(2\beta_1-\beta_2)}{16(\beta_1-\beta_2)(2\beta_1+\beta_2)+4(\alpha_2-\alpha_3+4\alpha_4-4\alpha_6)(2\beta_1-\beta_2)k^2-4\beta_1(\mathcal{M}_{\mathrm{Pl}}^2)+10\beta_2(\mathcal{M}_{\mathrm{Pl}}^2)-(\mathcal{M}_{\mathrm{Pl}}^2)^2}$	$-\frac{2\sqrt{2}(4\beta_1-6\beta_2+(\mathcal{M}_{\mathrm{Pl}}^2))}{(1+k^2)(16(\beta_1-\beta_2)(2\beta_1+\beta_2)+4(\alpha_2-\alpha_3+4\alpha_4-4\alpha_6)(2\beta_1-\beta_2)k^2-4\beta_1(\mathcal{M}_{\mathrm{Pl}}^2)+10\beta_2(\mathcal{M}_{\mathrm{Pl}}^2)-(\mathcal{M}_{\mathrm{Pl}}^2)^2)}$	$-\frac{2i\sqrt{2}k(4\beta_1-6\beta_2+(\mathcal{M}_{\mathrm{Pl}}^2))}{(1+k^2)(16(\beta_1-\beta_2)(2\beta_1+\beta_2)+4(\alpha_2-\alpha_3+4\alpha_4-4\alpha_6)(2\beta_1-\beta_2)k^2-4\beta_1(\mathcal{M}_{\mathrm{Pl}}^2)+10\beta_2(\mathcal{M}_{\mathrm{Pl}}^2)-(\mathcal{M}_{\mathrm{Pl}}^2)^2)}$	0	0	0	0
$1^{+}\sigma^{\perp}\dagger^{\alpha\beta}$	$\frac{2\sqrt{2}(4\beta_1-6\beta_2+(\mathcal{M}_{\mathrm{Pl}}^2))}{(1+k^2)(-16(\beta_1-\beta_2)(2\beta_1+\beta_2)-4(\alpha_2-\alpha_3+4\alpha_4-4\alpha_6)(2\beta_1-\beta_2)k^2+4\beta_1(\mathcal{M}_{\mathrm{Pl}}^2)-10\beta_2(\mathcal{M}_{\mathrm{Pl}}^2)+(\mathcal{M}_{\mathrm{Pl}}^2)^2)}$	$\frac{2(12\beta_1-10\beta_2+2(\alpha_2-\alpha_3+4\alpha_4-4\alpha_6)k^2+(\mathcal{M}_{\mathrm{Pl}}^2))}{(1+k^2)^2(16(\beta_1-\beta_2)(2\beta_1+\beta_2)+4(\alpha_2-\alpha_3+4\alpha_4-4\alpha_6)(2\beta_1-\beta_2)k^2-4\beta_1(\mathcal{M}_{\mathrm{Pl}}^2)+10\beta_2(\mathcal{M}_{\mathrm{Pl}}^2)-(\mathcal{M}_{\mathrm{Pl}}^2)^2)}$	$\frac{2ik(12\beta_1-10\beta_2+2(\alpha_2-\alpha_3+4\alpha_4-4\alpha_6)k^2+(\mathcal{M}_{\mathrm{Pl}}^2))}{(1+k^2)^2(16(\beta_1-\beta_2)(2\beta_1+\beta_2)+4(\alpha_2-\alpha_3+4\alpha_4-4\alpha_6)(2\beta_1-\beta_2)k^2-4\beta_1(\mathcal{M}_{\mathrm{Pl}}^2)+10\beta_2(\mathcal{M}_{\mathrm{Pl}}^2)-(\mathcal{M}_{\mathrm{Pl}}^2)^2)}$	0	0	0	0
$1^{+}\tau^{\parallel}\dagger^{\alpha\beta}$	$-\frac{2i\sqrt{2}k(4\beta_1-6\beta_2+(\mathcal{M}_{\mathrm{Pl}}^2))}{(1+k^2)(-16(\beta_1-\beta_2)(2\beta_1+\beta_2)-4(\alpha_2-\alpha_3+4\alpha_4-4\alpha_6)(2\beta_1-\beta_2)k^2+4\beta_1(\mathcal{M}_{\mathrm{Pl}}^2)-10\beta_2(\mathcal{M}_{\mathrm{Pl}}^2)+(\mathcal{M}_{\mathrm{Pl}}^2)^2)}$	$\frac{2ik(12\beta_1-10\beta_2+2(\alpha_2-\alpha_3+4\alpha_4-4\alpha_6)k^2+(\mathcal{M}_{\mathrm{Pl}}^2))}{(1+k^2)^2(-16(\beta_1-\beta_2)(2\beta_1+\beta_2)-4(\alpha_2-\alpha_3+4\alpha_4-4\alpha_6)(2\beta_1-\beta_2)k^2+4\beta_1(\mathcal{M}_{\mathrm{Pl}}^2)-10\beta_2(\mathcal{M}_{\mathrm{Pl}}^2)+(\mathcal{M}_{\mathrm{Pl}}^2)^2)}$	$\frac{2k^2(12\beta_1-10\beta_2+2(\alpha_2-\alpha_3+4\alpha_4-4\alpha_6)k^2+(\mathcal{M}_{\mathrm{Pl}}^2))}{(1+k^2)^2(16(\beta_1-\beta_2)(2\beta_1+\beta_2)+4(\alpha_2-\alpha_3+4\alpha_4-4\alpha_6)(2\beta_1-\beta_2)k^2-4\beta_1(\mathcal{M}_{\mathrm{Pl}}^2)+10\beta_2(\mathcal{M}_{\mathrm{Pl}}^2)-(\mathcal{M}_{\mathrm{Pl}}^2)^2)}$	0	0	0	0
$1^{-}\sigma^{\parallel}\dagger^{\alpha}$	0	0	0	$\frac{4(72(2\beta_1+\beta_2+\beta_3)+k^2\xi)}{3(24(4\beta_1+2\beta_2-(\mathcal{M}_{\mathrm{Pl}}^2))(2\beta_1+\beta_2+3\beta_3+(\mathcal{M}_{\mathrm{Pl}}^2))+k^2(2\beta_2+4(\beta_1+8\beta_1\theta(1+3\theta)+2\theta(2\beta_2+6(\beta_2+\beta_3)\theta-(\mathcal{M}_{\mathrm{Pl}}^2)))-(\mathcal{M}_{\mathrm{Pl}}^2))\xi)}$	$\frac{4\sqrt{2}(72\beta_3+36(\mathcal{M}_{\mathrm{Pl}}^2)+k^2(1+6\theta)\xi)}{3(1+2k^2)(24(4\beta_1+2\beta_2-(\mathcal{M}_{\mathrm{Pl}}^2))(2\beta_1+\beta_2+3\beta_3+(\mathcal{M}_{\mathrm{Pl}}^2))+k^2(2\beta_2+4(\beta_1+8\beta_1\theta(1+3\theta)+2\theta(2\beta_2+6(\beta_2+\beta_3)\theta-(\mathcal{M}_{\mathrm{Pl}}^2)))-(\mathcal{M}_{\mathrm{Pl}}^2))\xi)}$	0	$\frac{8ik(72\beta_3+36(\mathcal{M}_{\mathrm{Pl}}^2)+k^2(1+6\theta)\xi)}{3(1+2k^2)(24(4\beta_1+2\beta_2-(\mathcal{M}_{\mathrm{Pl}}^2))(2\beta_1+\beta_2+3\beta_3+(\mathcal{M}_{\mathrm{Pl}}^2))+k^2(2\beta_2+4(\beta_1+8\beta_1\theta(1+3\theta)+2\theta(2\beta_2+6(\beta_2+\beta_3)\theta-(\mathcal{M}_{\mathrm{Pl}}^2)))-(\mathcal{M}_{\mathrm{Pl}}^2))\xi)}$
$1^{-}\sigma^{\perp}\dagger^{\alpha}$	0	0	0	$\frac{4\sqrt{2}(72\beta_3+36(\mathcal{M}_{\mathrm{Pl}}^2)+k^2(1+6\theta)\xi)}{3(1+2k^2)(24(4\beta_1+2\beta_2-(\mathcal{M}_{\mathrm{Pl}}^2))(2\beta_1+\beta_2+3\beta_3+(\mathcal{M}_{\mathrm{Pl}}^2))+k^2(2\beta_2+4(\beta_1+8\beta_1\theta(1+3\theta)+2\theta(2\beta_2+6(\beta_2+\beta_3)\theta-(\mathcal{M}_{\mathrm{Pl}}^2)))-(\mathcal{M}_{\mathrm{Pl}}^2))\xi)}$	$\frac{8(18(4\beta_1+2\beta_2+4\beta_3+(\mathcal{M}_{\mathrm{Pl}}^2))+(k+6k\theta^2\xi)}{3(1+2k^2)^2(24(4\beta_1+2\beta_2-(\mathcal{M}_{\mathrm{Pl}}^2))(2\beta_1+\beta_2+3\beta_3+(\mathcal{M}_{\mathrm{Pl}}^2))+k^2(2\beta_2+4(\beta_1+8\beta_1\theta(1+3\theta)+2\theta(2\beta_2+6(\beta_2+\beta_3)\theta-(\mathcal{M}_{\mathrm{Pl}}^2)))-(\mathcal{M}_{\mathrm{Pl}}^2))\xi)}$	0	$\frac{8i\sqrt{2}k(18(4\beta_1+2\beta_2+4\beta_3+(\mathcal{M}_{\mathrm{Pl}}^2))+(k+6k\theta^2\xi)}{3(1+2k^2)^2(24(4\beta_1+2\beta_2-(\mathcal{M}_{\mathrm{Pl}}^2))(2\beta_1+\beta_2+3\beta_3+(\mathcal{M}_{\mathrm{Pl}}^2))+k^2(2\beta_2+4(\beta_1+8\beta_1\theta(1+3\theta)+2\theta(2\beta_2+6(\beta_2+\beta_3)\theta-(\mathcal{M}_{\mathrm{Pl}}^2)))-(\mathcal{M}_{\mathrm{Pl}}^2))\xi)}$
$1^{-}\tau^{\parallel}\dagger^{\alpha}$	0	0	0	0	0	0	0
$1^{-}\tau^{\perp}\dagger^{\alpha}$	0	0	0	$-\frac{8ik(72\beta_3+36(\mathcal{M}_{\mathrm{Pl}}^2)+k^2(1+6\theta)\xi)}{3(1+2k^2)(24(4\beta_1+2\beta_2-(\mathcal{M}_{\mathrm{Pl}}^2))(2\beta_1+\beta_2+3\beta_3+(\mathcal{M}_{\mathrm{Pl}}^2))+k^2(2\beta_2+4(\beta_1+8\beta_1\theta(1+3\theta)+2\theta(2\beta_2+6(\beta_2+\beta_3)\theta-(\mathcal{M}_{\mathrm{Pl}}^2)))-(\mathcal{M}_{\mathrm{Pl}}^2))\xi)}$	$-\frac{8i\sqrt{2}k(18(4\beta_1+2\beta_2+4\beta_3+(\mathcal{M}_{\mathrm{Pl}}^2))+(k+6k\theta^2\xi)}{3(1+2k^2)^2(24(4\beta_1+2\beta_2-(\mathcal{M}_{\mathrm{Pl}}^2))(2\beta_1+\beta_2+3\beta_3+(\mathcal{M}_{\mathrm{Pl}}^2))+k^2(2\beta_2+4(\beta_1+8\beta_1\theta(1+3\theta)+2\theta(2\beta_2+6(\beta_2+\beta_3)\theta-(\mathcal{M}_{\mathrm{Pl}}^2)))-(\mathcal{M}_{\mathrm{Pl}}^2))\xi)}$	0	$\frac{288k^2(4\beta_1+2\beta_2+4\beta_3+(\mathcal{M}_{\mathrm{Pl}}^2))+16k^4(1+6\theta)^2\xi}{3(1+2k^2)^2(24(4\beta_1+2\beta_2-(\mathcal{M}_{\mathrm{Pl}}^2))(2\beta_1+\beta_2+3\beta_3+(\mathcal{M}_{\mathrm{Pl}}^2))+k^2(2\beta_2+4(\beta_1+8\beta_1\theta(1+3\theta)+2\theta(2\beta_2+6(\beta_2+\beta_3)\theta-(\mathcal{M}_{\mathrm{Pl}}^2)))-(\mathcal{M}_{\mathrm{Pl}}^2))\xi)}$

	$1^{+}\mathcal{A}^{\parallel}{}_{\alpha\beta}$	$1^{+}\mathcal{A}^{\perp}{}_{\alpha\beta}$	$1^{+}f^{\parallel}{}_{\alpha\beta}$	$1^{-}\mathcal{A}^{\parallel}{}_{\alpha}$	$1^{-}\mathcal{A}^{\perp}{}_{\alpha}$	$1^{-}f^{\parallel}{}_{\alpha}$	$1^{-}f^{\perp}{}_{\alpha}$
$1^{+}\mathcal{A}^{\parallel}\dagger^{\alpha\beta}$	$\frac{1}{4}(12\beta_1-10\beta_2+2(\alpha_2-\alpha_3+4\alpha_4-4\alpha_6)k^2+(\mathcal{M}_{\mathrm{Pl}}^2))$	$\frac{4\beta_1-6\beta_2+(\mathcal{M}_{\mathrm{Pl}}^2)}{2\sqrt{2}}$	$\frac{ik(4\beta_1-6\beta_2+(\mathcal{M}_{\mathrm{Pl}}^2))}{2\sqrt{2}}$	0	0 0		0
$1^{+}\mathcal{A}^{\perp}\dagger^{\alpha\beta}$	$\frac{4\beta_1-6\beta_2+(\mathcal{M}_{\mathrm{Pl}}^2)}{2\sqrt{2}}$	$2\beta_1-\beta_2$	$i(2\beta_1-\beta_2)k$	0	0 0		0
$1^{+}f^{\parallel}\dagger^{\alpha\beta}$	$-\frac{ik(4\beta_1-6\beta_2+(\mathcal{M}_{\mathrm{Pl}}^2))}{2\sqrt{2}}$	$-i(2\beta_1-\beta_2)k$	$(2\beta_1-\beta_2)k^2$	0	0 0		0
$1^{-}\mathcal{A}^{\parallel}\dagger^{\alpha}$	0	0	0	$\beta_1+\frac{\beta_2}{2}+\beta_3+\frac{(\mathcal{M}_{\mathrm{Pl}}^2)}{4}+\frac{1}{72}(k+6k\theta^2\xi$	$-\frac{72\beta_3+36(\mathcal{M}_{\mathrm{Pl}}^2)+k^2(1+6\theta)\xi}{72\sqrt{2}}$	0	$-\frac{1}{72}ik(72\beta_3+36(\mathcal{M}_{\mathrm{Pl}}^2)+k^2(1+6\theta)\xi)$
$1^{-}\mathcal{A}^{\perp}\dagger^{\alpha}$	0	0	0	$-\frac{72\beta_3+36(\mathcal{M}_{\mathrm{Pl}}^2)+k^2(1+6\theta)\xi}{72\sqrt{2}}$	$\beta_1+\frac{\beta_2+\beta_3}{2}+\frac{k^2\xi}{144}$	0	$\frac{ik(72(2\beta_1+\beta_2+\beta_3)+k^2\xi)}{72\sqrt{2}}$
$1^{-}f^{\parallel}\dagger^{\alpha}$	0	0	0	0	0 0		0
$1^{-}f^{\perp}\dagger^{\alpha}$	0	0	0	$\frac{1}{72}ik(72\beta_3+36(\mathcal{M}_{\mathrm{Pl}}^2)+k^2(1+6\theta)\xi)$	$-\frac{ik(72(2\beta_1+\beta_2+\beta_3)+k^2\xi)}{72\sqrt{2}}$	0	$(2\beta_1+\beta_2+\beta_3)k^2+\frac{k^4\xi}{72}$

	$2^{+}\sigma^{\parallel}{}_{\alpha\beta}$	$2^{+}\tau^{\parallel}{}_{\alpha\beta}$	$2^{-}\sigma^{\parallel}{}_{\alpha\beta\chi}$
$2^{+}\sigma^{\parallel}\dagger^{\alpha\beta}$	$\frac{8(2\beta_1+\beta_2)}{-32\alpha_4\beta_1k^2+32\alpha_6\beta_1k^2-16\alpha_4\beta_2k^2+16\alpha_6\beta_2k^2-12\alpha_2(2\beta_1+\beta_2)k^2+4\alpha_3(2\beta_1+\beta_2)k^2+4\beta_1(\mathcal{M}_{\mathrm{Pl}}^2)+2\beta_2(\mathcal{M}_{\mathrm{Pl}}^2)-(\mathcal{M}_{\mathrm{Pl}}^2)^2+8(2\beta_1+\beta_2)k^2\theta^2\xi}$	$\frac{2i\sqrt{2}(4\beta_1+2\beta_2-(\mathcal{M}_{\mathrm{Pl}}^2))}{k(-32\alpha_4\beta_1k^2+32\alpha_6\beta_1k^2-16\alpha_4\beta_2k^2+16\alpha_6\beta_2k^2-12\alpha_2(2\beta_1+\beta_2)k^2+4\alpha_3(2\beta_1+\beta_2)k^2+4\beta_1(\mathcal{M}_{\mathrm{Pl}}^2)+2\beta_2(\mathcal{M}_{\mathrm{Pl}}^2)-(\mathcal{M}_{\mathrm{Pl}}^2)^2+8(2\beta_1+\beta_2)k^2\theta^2\xi)}$	0
$2^{+}\tau^{\parallel}\dagger^{\alpha\beta}$	$\frac{2i\sqrt{2}(4\beta_1+2\beta_2-(\mathcal{M}_{\mathrm{Pl}}^2))}{k((\mathcal{M}_{\mathrm{Pl}}^2)^2+2(2\beta_1+\beta_2)(6\alpha_2k^2-(\mathcal{M}_{\mathrm{Pl}}^2)-2k^2(\alpha_3-4\alpha_4+4\alpha_6+2\theta^2\xi)))}$	$\frac{1}{k^2\left(2\beta_1+\beta_2-\frac{(-4\beta_1-2\beta_2+(\mathcal{M}_{\mathrm{Pl}}^2))^2}{8\beta_1+4\beta_2-2(\mathcal{M}_{\mathrm{Pl}}^2)+4k^2(-3\alpha_2+\alpha_3-4\alpha_4+4\alpha_6+2\theta^2\xi)}\right)}$	0
$2^{-}\sigma^{\parallel}\dagger^{\alpha\beta\chi}$	0	0	$\frac{4}{4\beta_1+2\beta_2-(\mathcal{M}_{\mathrm{Pl}}^2)+2k^2(-2\alpha_2+\theta^2\xi)}$

	$0^{+}\sigma^{\parallel}$	$0^{+}\tau^{\parallel}$	$0^{+}\tau^{\perp}$	$0^{-}\sigma^{\parallel}$
$0^{+}\sigma^{\parallel}\dagger$	$-((2(2\beta_1+\beta_2+3\beta_3))/(8\alpha_4\beta_1k^2-8\alpha_6\beta_1k^2+4\alpha_4\beta_2k^2-4\alpha_6\beta_2k^2+12\alpha_4\beta_3k^2-12\alpha_6\beta_3k^2-12\alpha_1(2\beta_1+\beta_2+3\beta_3)k^2-4\alpha_3(2\beta_1+\beta_2+3\beta_3)k^2+2\beta_1(\mathcal{M}_{\mathrm{Pl}}^2)+\beta_2(\mathcal{M}_{\mathrm{Pl}}^2)+3\beta_3(\mathcal{M}_{\mathrm{Pl}}^2)+(\mathcal{M}_{\mathrm{Pl}}^2)^2-2(2\beta_1+\beta_2+3\beta_3)k^2\theta^2\xi))$	$-((i\sqrt{2}(2\beta_1+\beta_2+3\beta_3+(\mathcal{M}_{\mathrm{Pl}}^2)))/(k(8\alpha_4\beta_1k^2-8\alpha_6\beta_1k^2+4\alpha_4\beta_2k^2-4\alpha_6\beta_2k^2+12\alpha_4\beta_3k^2-12\alpha_6\beta_3k^2-12\alpha_1(2\beta_1+\beta_2+3\beta_3)k^2-4\alpha_3(2\beta_1+\beta_2+3\beta_3)k^2+2\beta_1(\mathcal{M}_{\mathrm{Pl}}^2)+\beta_2(\mathcal{M}_{\mathrm{Pl}}^2)+3\beta_3(\mathcal{M}_{\mathrm{Pl}}^2)+(\mathcal{M}_{\mathrm{Pl}}^2)^2-2(2\beta_1+\beta_2+3\beta_3)k^2\theta^2\xi)))$	0	0
$0^{+}\tau^{\parallel}\dagger$	$\frac{i\sqrt{2}(2\beta_1+\beta_2+3\beta_3+(\mathcal{M}_{\mathrm{Pl}}^2))}{k((\mathcal{M}_{\mathrm{Pl}}^2)^2+(2\beta_1+\beta_2+3\beta_3)((\mathcal{M}_{\mathrm{Pl}}^2)-2k^2(6\alpha_1+2(\alpha_3-\alpha_4+\alpha_6)+\theta^2\xi)))}$	$\frac{1}{k^2\left(2\beta_1+\beta_2+3\beta_3-\frac{(2\beta_1+\beta_2+3\beta_3+(\mathcal{M}_{\mathrm{Pl}}^2))^2}{2\beta_1+\beta_2+3\beta_3+(\mathcal{M}_{\mathrm{Pl}}^2)+2k^2(2(3\alpha_1+\alpha_3-\alpha_4+\alpha_6)+\theta^2\xi)}\right)}$	0	0
$0^{+}\tau^{\perp}\dagger$	0	0	0	0
$0^{-}\sigma^{\parallel}\dagger$	0	0	0	$\frac{2}{8\beta_1-8\beta_2+(\mathcal{M}_{\mathrm{Pl}}^2)+2k^2(2\alpha_2+6\alpha_4-\theta^2\xi)}$

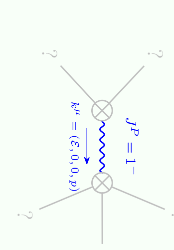
	$0^{+}\mathcal{A}^{\parallel}$	$0^{+}f^{\parallel}$	$0^{+}f^{\perp}$	$0^{-}\mathcal{A}^{\parallel}$
$0^{+}\mathcal{A}^{\parallel}\dagger$	$\frac{1}{2}(2\beta_1+\beta_2+3\beta_3+(\mathcal{M}_{\mathrm{Pl}}^2)+2k^2(2(3\alpha_1+\alpha_3-\alpha_4+\alpha_6)+\theta^2\xi))$	$-\frac{ik(2\beta_1+\beta_2+3\beta_3+(\mathcal{M}_{\mathrm{Pl}}^2))}{\sqrt{2}}$	0	0
$0^{+}f^{\parallel}\dagger$	$\frac{ik(2\beta_1+\beta_2+3\beta_3+(\mathcal{M}_{\mathrm{Pl}}^2))}{\sqrt{2}}$	$(2\beta_1+\beta_2+3\beta_3)k^2$	0	0
$0^{+}f^{\perp}\dagger$	0	0 0		0
$0^{-}\mathcal{A}^{\parallel}\dagger$	0	0 0		$4\beta_1-4\beta_2+\frac{(\mathcal{M}_{\mathrm{Pl}}^2)}{2}+k^2(2\alpha_2+6\alpha_4-\theta^2\xi)$

	$2^{+}\mathcal{A}^{\parallel}{}_{\alpha\beta}$	$2^{+}f^{\parallel}{}_{\alpha\beta}$	$2^{-}\mathcal{A}^{\parallel}{}_{\alpha\beta\chi}$
$2^{+}\mathcal{A}^{\parallel}\dagger^{\alpha\beta}$	$\frac{1}{4}(4\beta_1+2\beta_2-(\mathcal{M}_{\mathrm{Pl}}^2)+2k^2(-3\alpha_2+\alpha_3-4\alpha_4+4\alpha_6+2\theta^2\xi))$	$-\frac{ik(4\beta_1+2\beta_2-(\mathcal{M}_{\mathrm{Pl}}^2))}{2\sqrt{2}}$	0
$2^{+}f^{\parallel}\dagger^{\alpha\beta}$	$\frac{ik(4\beta_1+2\beta_2-(\mathcal{M}_{\mathrm{Pl}}^2))}{2\sqrt{2}}$	$(2\beta_1+\beta_2)k^2$	0
$2^{-}\mathcal{A}^{\parallel}\dagger^{\alpha\beta\chi}$	0	0	$\frac{1}{4}(4\beta_1+2\beta_2-(\mathcal{M}_{\mathrm{Pl}}^2)+2k^2(-2\alpha_2+\theta^2\xi))$

$$
\begin{aligned}
S == &\iiiint(\mathcal{A}^{\alpha\beta\chi}\ \sigma_{\alpha\beta\chi}+f^{\alpha\beta}\ \tau(\Delta+\mathcal{K})_{\alpha\beta}-\tfrac{1}{2}(\mathcal{M}_{\mathrm{Pl}}^2)(\mathcal{A}_{\iota\kappa\theta}\mathcal{A}^{\iota\theta\kappa}+\mathcal{A}^{\iota\theta}{}_{\iota}\mathcal{A}_{\theta}{}^{\kappa}{}_{\kappa}+2f^{\iota\theta}\partial_\theta\mathcal{A}_{\iota}{}^{\kappa}{}_{\kappa}-2\partial_\theta\mathcal{A}^{\iota\theta}{}_{\iota}-\\
&2f^{\iota\theta}\partial_\kappa\mathcal{A}_{\iota}{}^{\kappa}{}_{\theta}+2f^{\iota}{}_{\iota}\partial_\kappa\mathcal{A}^{\theta\kappa}{}_{\theta})+\beta_3(-\mathcal{A}^{\iota\theta}{}_{\iota}\mathcal{A}_{\theta}{}^{\kappa}{}_{\kappa}+2\mathcal{A}_{\iota}{}^{\kappa}{}_{\kappa}\partial_\theta f^{\iota\theta}-\\
&2\mathcal{A}_{\theta}{}^{\kappa}{}_{\kappa}\partial^\theta f^{\iota}{}_{\iota}+\partial_\theta f^{\kappa}{}_{\kappa}\partial^\theta f^{\iota}{}_{\iota}+\partial_\theta f^{\iota\theta}\partial_\kappa f_{\iota}{}^{\kappa}-2\partial^\theta f^{\iota}{}_{\iota}\partial_\kappa f_{\theta}{}^{\kappa})+\\
&2\alpha_4(4\partial_\iota\mathcal{A}_{\alpha\theta\kappa}-2\partial_\iota\mathcal{A}_{\alpha\kappa\theta}-\partial_\theta\mathcal{A}_{\alpha\iota\kappa}+\partial_\kappa\mathcal{A}_{\alpha\iota\theta}-2\partial_\kappa\mathcal{A}_{\alpha\theta\iota})\partial^\kappa\mathcal{A}^{\alpha\iota\theta}+\\
&\theta^2\xi(-2\partial_\iota\mathcal{A}_{\alpha\theta\kappa}+\partial_\iota\mathcal{A}_{\alpha\kappa\theta}+\partial_\kappa\mathcal{A}_{\alpha\theta\iota})\partial^\kappa\mathcal{A}^{\alpha\iota\theta}-\alpha_2(\partial_\theta\mathcal{A}_{\iota}{}^{\kappa}{}_{\kappa}\partial^\theta\mathcal{A}^{\alpha\iota}{}_{\alpha}+\partial_\alpha\mathcal{A}^{\alpha\iota\theta}\partial_\kappa\mathcal{A}_{\iota}{}^{\kappa}{}_{\theta}-\\
&2\partial^\theta\mathcal{A}^{\alpha\iota}{}_{\alpha}\partial_\kappa\mathcal{A}_{\iota}{}^{\kappa}{}_{\theta}-4\partial_\iota\mathcal{A}_{\alpha\theta\kappa}\partial^\kappa\mathcal{A}^{\alpha\iota\theta}+2\partial_\iota\mathcal{A}_{\alpha\kappa\theta}\partial^\kappa\mathcal{A}^{\alpha\iota\theta}+2\partial_\kappa\mathcal{A}_{\alpha\theta\iota}\partial^\kappa\mathcal{A}^{\alpha\iota\theta})+\\
&2\beta_1(-\mathcal{A}_{\iota\kappa\theta}\mathcal{A}^{\iota\theta\kappa}+(2\mathcal{A}_{\theta\kappa\iota}-\partial_\iota f_{\kappa\theta}+\partial_\kappa f_{\iota\theta})\partial^\kappa f^{\iota\theta}+\mathcal{A}_{\iota\theta\kappa}(\mathcal{A}^{\iota\theta\kappa}+2\partial^\kappa f^{\iota\theta}))+\\
&\beta_2((-2\mathcal{A}_{\theta\kappa\iota}-2\partial_\iota f_{\theta\kappa}+\partial_\theta f_{\iota\kappa}+\partial_\kappa f_{\theta\iota})\partial^\kappa f^{\iota\theta}-\\
&\mathcal{A}_{\iota\theta\kappa}(\mathcal{A}^{\iota\theta\kappa}+2\partial^\kappa f^{\iota\theta})+\mathcal{A}_{\iota\kappa\theta}(3\mathcal{A}^{\iota\theta\kappa}+4\partial^\kappa f^{\iota\theta}))+\\
&\tfrac{1}{6}\theta\xi(-\partial_\iota\mathcal{A}_{\kappa}{}^{\lambda}{}_{\lambda}\partial^\kappa\partial_\theta f^{\iota\theta}+\partial_\kappa\mathcal{A}_{\iota}{}^{\lambda}{}_{\lambda}\partial^\kappa\partial_\theta f^{\iota\theta}+\partial_\theta\mathcal{A}_{\kappa}{}^{\lambda}{}_{\lambda}(\partial^\kappa\mathcal{A}^{\iota\theta}{}_{\iota}+\partial^\kappa\partial^\theta f^{\iota}{}_{\iota})-\\
&\partial_\kappa\mathcal{A}_{\theta}{}^{\lambda}{}_{\lambda}(\partial^\kappa\mathcal{A}^{\iota\theta}{}_{\iota}+\partial^\kappa\partial^\theta f^{\iota}{}_{\iota})-\partial^\kappa\partial_\theta f^{\iota\theta}\partial_\lambda\mathcal{A}_{\iota}{}^{\lambda}{}_{\kappa}+\partial^\kappa\mathcal{A}^{\iota\theta}{}_{\iota}\partial_\lambda\mathcal{A}_{\theta}{}^{\lambda}{}_{\kappa}+\\
&\partial^\kappa\partial^\theta f^{\iota}{}_{\iota}\partial_\lambda\mathcal{A}_{\theta}{}^{\lambda}{}_{\kappa}+\partial^\kappa\partial_\theta f^{\iota\theta}\partial_\lambda\mathcal{A}_{\kappa}{}^{\lambda}{}_{\iota}-\partial^\kappa\mathcal{A}^{\iota\theta}{}_{\iota}\partial_\lambda\mathcal{A}_{\kappa}{}^{\lambda}{}_{\theta}-\partial^\kappa\partial^\theta f^{\iota}{}_{\iota}\partial_\lambda\mathcal{A}_{\kappa}{}^{\lambda}{}_{\theta})+\\
&4\alpha_1\partial_\theta\mathcal{A}^{\iota\theta}{}_{\iota}\partial_\lambda\mathcal{A}^{\kappa\lambda}{}_{\kappa}+\tfrac{1}{72}\xi(-2\partial_\iota\mathcal{A}_{\kappa}{}^{\lambda}{}_{\lambda}\partial^\kappa\partial_\theta f^{\iota\theta}+2\partial_\kappa\mathcal{A}_{\iota}{}^{\lambda}{}_{\lambda}\partial^\kappa\partial_\theta f^{\iota\theta}+\\
&\partial_\theta\mathcal{A}_{\kappa}{}^{\lambda}{}_{\lambda}(\partial^\kappa\mathcal{A}^{\iota\theta}{}_{\iota}+\partial^\kappa\partial^\theta f^{\iota}{}_{\iota})-\partial_\kappa\mathcal{A}_{\theta}{}^{\lambda}{}_{\lambda}(\partial^\kappa\mathcal{A}^{\iota\theta}{}_{\iota}+\partial^\kappa\partial^\theta f^{\iota}{}_{\iota})-\\
&\partial^\kappa\partial_\theta f^{\iota\theta}\partial_\lambda\partial_\iota f_{\kappa}{}^{\lambda}+\partial^\kappa\partial^\theta f^{\iota}{}_{\iota}\partial_\lambda\partial_\theta f_{\kappa}{}^{\lambda}+\partial^\kappa\partial_\theta f^{\iota\theta}\partial_\lambda\partial_\kappa f_{\iota}{}^{\lambda}-\partial^\kappa\partial^\theta f^{\iota}{}_{\iota}\partial_\lambda\partial_\kappa f_{\theta}{}^{\lambda})-\\
&\alpha_3(\partial_\kappa\mathcal{A}_{\lambda}{}^{\zeta}{}_{\zeta}\partial^\lambda\mathcal{A}^{\theta\kappa}{}_{\theta}+(\partial_\theta\mathcal{A}^{\theta\kappa\lambda}-2\partial^\lambda\mathcal{A}^{\theta\kappa}{}_{\theta})\partial_\zeta\mathcal{A}_{\lambda}{}^{\zeta}{}_{\kappa})+\\
&4\alpha_6\partial_\iota\mathcal{A}_{\lambda\zeta\alpha}\partial^\zeta\mathcal{A}^{\alpha\iota\lambda})[t,x,y,z]\,dz\,dy\,dx\,dt
\end{aligned}
$$

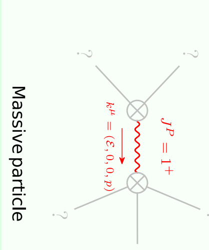
Spin-parity form	Covariant form	Multiplicities
$0^{+}\tau^{\perp}==0$	$\partial_\beta\partial_\alpha\tau(\Delta+\mathcal{K})^{\alpha\beta}==0$	1
$2ik1^{-}\sigma^{\perp\alpha}+1^{-}\tau^{\perp\alpha}==0$	$\partial_\chi\partial_\beta\partial^\alpha\tau(\Delta+\mathcal{K})^{\beta\chi}==\partial_\chi\partial^\chi\partial_\beta\tau(\Delta+\mathcal{K})^{\alpha\beta}+2\partial_\delta\partial^\delta\partial_\chi\partial_\beta\sigma^{\beta\alpha\chi}$	3
$1^{-}\tau^{\parallel\alpha}==0$	$\partial_\chi\partial_\beta\partial^\alpha\tau(\Delta+\mathcal{K})^{\beta\chi}==\partial_\chi\partial^\chi\partial_\beta\tau(\Delta+\mathcal{K})^{\beta\alpha}$	3
$ik1^{+}\sigma^{\perp\alpha\beta}+1^{+}\tau^{\parallel\alpha\beta}==0$	$\partial_\chi\partial^\alpha\tau(\Delta+\mathcal{K})^{\beta\chi}+\partial_\chi\partial^\beta\tau(\Delta+\mathcal{K})^{\chi\alpha}+\partial_\chi\partial^\chi\tau(\Delta+\mathcal{K})^{\alpha\beta}+2\partial_\delta\partial_\chi\partial^\alpha\sigma^{\chi\beta\delta}+2\partial_\delta\partial^\delta\partial_\chi\sigma^{\chi\alpha\beta}==\partial_\chi\partial^\alpha\tau(\Delta+\mathcal{K})^{\chi\beta}+\partial_\chi\partial^\beta\tau(\Delta+\mathcal{K})^{\alpha\chi}+\partial_\chi\partial^\chi\tau(\Delta+\mathcal{K})^{\beta\alpha}+2\partial_\delta\partial_\chi\partial^\beta\sigma^{\chi\alpha\delta}$	3
Total expected gauge generators:		10

Massive and massless spectra



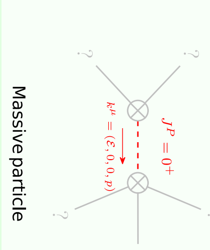
Massive particle

Pole residue:	$-((48(4096\beta_1^4(1+6\theta)^2+256\beta_2^4(1+6\theta)^2-13824\beta_3^3\theta^2(\mathcal{M}_{\mathrm{Pl}}^2)+2304\beta_3^2\theta(\mathcal{M}_{\mathrm{Pl}}^2)^2-4608\beta_3^2\theta^2(\mathcal{M}_{\mathrm{Pl}}^2)^2-96\beta_3(\mathcal{M}_{\mathrm{Pl}}^2)^3+768\beta_3\theta(\mathcal{M}_{\mathrm{Pl}}^2)^3-32(\mathcal{M}_{\mathrm{Pl}}^2)^4-13824\beta_3^3\theta^4\xi+288\beta_3^2\theta^2(\mathcal{M}_{\mathrm{Pl}}^2)\xi+2304\beta_3^2\theta^3(\mathcal{M}_{\mathrm{Pl}}^2)\xi-9216\beta_3^2\theta^4(\mathcal{M}_{\mathrm{Pl}}^2)\xi+144\beta_3\theta^2(\mathcal{M}_{\mathrm{Pl}}^2)^2\xi+1152\beta_3\theta^3(\mathcal{M}_{\mathrm{Pl}}^2)^2\xi-2304\beta_3\theta^4(\mathcal{M}_{\mathrm{Pl}}^2)^2\xi+(\mathcal{M}_{\mathrm{Pl}}^2)^3\xi+16\theta(\mathcal{M}_{\mathrm{Pl}}^2)^3\xi+112\theta^2(\mathcal{M}_{\mathrm{Pl}}^2)^3\xi+384\theta^3(\mathcal{M}_{\mathrm{Pl}}^2)^3\xi+64\beta_1^3(128\beta_2(1+6\theta)^2+96\beta_3(1+16\theta+60\theta^2)-16(\mathcal{M}_{\mathrm{Pl}}^2)+576\theta^2(\mathcal{M}_{\mathrm{Pl}}^2)-\xi-16\theta\xi-112\theta^2\xi-384\theta^3\xi-576\theta^4\xi)+8\beta_2^3(96\beta_3(1+16\theta+60\theta^2)+16(-1+36\theta^2)(\mathcal{M}_{\mathrm{Pl}}^2)-(1+8\theta+24\theta^2)^2\xi)+12\beta_2^2(768\beta_3^2\theta(1+7\theta)-48\beta_3(2(1+8\theta+4\theta^2)(\mathcal{M}_{\mathrm{Pl}}^2)+\theta^2(1+8\theta+24\theta^2)\xi)+(\mathcal{M}_{\mathrm{Pl}}^2)(-16(1+12\theta+24\theta^2)(\mathcal{M}_{\mathrm{Pl}}^2)+(1+16\theta+88\theta^2+192\theta^3)\xi))+48\beta_1^2(768\beta_3^2\theta(1+7\theta)+128(\beta_2+6\beta_2\theta)^2-48\beta_3(2(1+8\theta+4\theta^2)(\mathcal{M}_{\mathrm{Pl}}^2)+\theta^2(1+8\theta+24\theta^2)\xi)+2\beta_2(96\beta_3(1+16\theta+60\theta^2)+16(-1+36\theta^2)(\mathcal{M}_{\mathrm{Pl}}^2)-(1+8\theta+24\theta^2)^2\xi)+(\mathcal{M}_{\mathrm{Pl}}^2)(-16(1+12\theta+24\theta^2)(\mathcal{M}_{\mathrm{Pl}}^2)+(1+16\theta+88\theta^2+192\theta^3)\xi))+2\beta_2(13824\beta_3^3\theta^2-288\beta_3(\mathcal{M}_{\mathrm{Pl}}^2)((-1+16\theta^2)(\mathcal{M}_{\mathrm{Pl}}^2)+16\theta^4\xi)-288\beta_3^2\theta(8(2+5\theta)(\mathcal{M}_{\mathrm{Pl}}^2)+\theta(1+8\theta+40\theta^2)\xi)+(\mathcal{M}_{\mathrm{Pl}}^2)^2(16(5+24\theta)(\mathcal{M}_{\mathrm{Pl}}^2)-3(1+16\theta+88\theta^2+192\theta^3+384\theta^4)\xi))+4\beta_1(13824\beta_3^3\theta^2+512\beta_2^3(1+6\theta)^2-288\beta_3(\mathcal{M}_{\mathrm{Pl}}^2)((-1+16\theta^2)(\mathcal{M}_{\mathrm{Pl}}^2)+16\theta^4\xi)+12\beta_2^2(96\beta_3(1+16\theta+60\theta^2)+16(-1+36\theta^2)(\mathcal{M}_{\mathrm{Pl}}^2)-(1+8\theta+24\theta^2)^2\xi)-288\beta_3^2\theta(8(2+5\theta)(\mathcal{M}_{\mathrm{Pl}}^2)+\theta(1+8\theta+40\theta^2)\xi)+(\mathcal{M}_{\mathrm{Pl}}^2)^2(16(5+24\theta)(\mathcal{M}_{\mathrm{Pl}}^2)-3(1+16\theta+88\theta^2+192\theta^3+384\theta^4)\xi)+12\beta_2(768\beta_3^2\theta(1+7\theta)-48\beta_3(2(1+8\theta+4\theta^2)(\mathcal{M}_{\mathrm{Pl}}^2)+\theta^2(1+8\theta+24\theta^2)\xi)+(\mathcal{M}_{\mathrm{Pl}}^2)(-16(1+12\theta+24\theta^2)(\mathcal{M}_{\mathrm{Pl}}^2)+(1+16\theta+88\theta^2+192\theta^3)\xi)))))/((-48\beta_3\theta^2-4\beta_1(1+8\theta+24\theta^2)-2\beta_2(1+8\theta+24\theta^2)+(\mathcal{M}_{\mathrm{Pl}}^2)+8\theta(\mathcal{M}_{\mathrm{Pl}}^2))^2\xi(384\beta_1^2+96\beta_2^2+288\beta_2\beta_3+48\beta_2(\mathcal{M}_{\mathrm{Pl}}^2)-144\beta_3(\mathcal{M}_{\mathrm{Pl}}^2)-48(\mathcal{M}_{\mathrm{Pl}}^2)^2-48\beta_3\theta^2\xi-2\beta_2(1+8\theta+24\theta^2)\xi+(\mathcal{M}_{\mathrm{Pl}}^2)\xi+8\theta(\mathcal{M}_{\mathrm{Pl}}^2)\xi+4\beta_1(96\beta_2+144\beta_3+24(\mathcal{M}_{\mathrm{Pl}}^2)-\xi-8\theta\xi-24\theta^2\xi))))>0$
Square mass:	$-\frac{24(4\beta_1+2\beta_2-(\mathcal{M}_{\mathrm{Pl}}^2))(2\beta_1+\beta_2+3\beta_3+(\mathcal{M}_{\mathrm{Pl}}^2))}{(48\beta_3\theta^2+4\beta_1(1+8\theta+24\theta^2)+2\beta_2(1+8\theta+24\theta^2)-(\mathcal{M}_{\mathrm{Pl}}^2)-8\theta(\mathcal{M}_{\mathrm{Pl}}^2))\xi}>0$
Spin:	1
Parity:	Odd



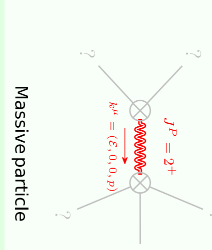
Massive particle

Pole residue:	$(\alpha_2(48\beta_1^2-80\beta_1\beta_2+44\beta_2^2+8\beta_1(\mathcal{M}_{\mathrm{Pl}}^2)-12\beta_2(\mathcal{M}_{\mathrm{Pl}}^2)+(\mathcal{M}_{\mathrm{Pl}}^2)^2)-\alpha_3(48\beta_1^2-80\beta_1\beta_2+44\beta_2^2+8\beta_1(\mathcal{M}_{\mathrm{Pl}}^2)-12\beta_2(\mathcal{M}_{\mathrm{Pl}}^2)+(\mathcal{M}_{\mathrm{Pl}}^2)^2)+4\alpha_4(48\beta_1^2-80\beta_1\beta_2+44\beta_2^2+8\beta_1(\mathcal{M}_{\mathrm{Pl}}^2)-12\beta_2(\mathcal{M}_{\mathrm{Pl}}^2)+(\mathcal{M}_{\mathrm{Pl}}^2)^2)-4\alpha_6(48\beta_1^2-80\beta_1\beta_2+44\beta_2^2+8\beta_1(\mathcal{M}_{\mathrm{Pl}}^2)-12\beta_2(\mathcal{M}_{\mathrm{Pl}}^2)+(\mathcal{M}_{\mathrm{Pl}}^2)^2)-2(2\beta_1-\beta_2)(32\beta_1^2-16\beta_2^2+10\beta_2(\mathcal{M}_{\mathrm{Pl}}^2)-(\mathcal{M}_{\mathrm{Pl}}^2)^2-4\beta_1(4\beta_2+(\mathcal{M}_{\mathrm{Pl}}^2)))))/((\alpha_2-\alpha_3+4\alpha_4-4\alpha_6)(2\beta_1-\beta_2)(8\alpha_2\beta_1-8\alpha_3\beta_1+32\alpha_4\beta_1-32\alpha_6\beta_1-32\beta_1^2-4\alpha_2\beta_2+4\alpha_3\beta_2-16\alpha_4\beta_2+16\alpha_6\beta_2+16\beta_1\beta_2+16\beta_2^2+4\beta_1(\mathcal{M}_{\mathrm{Pl}}^2)-10\beta_2(\mathcal{M}_{\mathrm{Pl}}^2)+(\mathcal{M}_{\mathrm{Pl}}^2)^2))>0$
Square mass:	$\frac{-32\beta_1^2+16\beta_2^2-10\beta_2(\mathcal{M}_{\mathrm{Pl}}^2)+(\mathcal{M}_{\mathrm{Pl}}^2)^2+4\beta_1(4\beta_2+(\mathcal{M}_{\mathrm{Pl}}^2))}{4(\alpha_2-\alpha_3+4\alpha_4-4\alpha_6)(2\beta_1-\beta_2)}>0$
Spin:	1
Parity:	Even



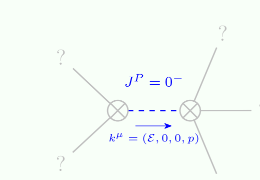
Massive particle

Pole residue:	$(-4\alpha_4\beta_1+4\alpha_6\beta_1-2\alpha_4\beta_2+2\alpha_6\beta_2-6\alpha_4\beta_3+6\alpha_6\beta_3-2\alpha_4(\mathcal{M}_{\mathrm{Pl}}^2)+2\alpha_6(\mathcal{M}_{\mathrm{Pl}}^2)+2\beta_1(\mathcal{M}_{\mathrm{Pl}}^2)+\beta_2(\mathcal{M}_{\mathrm{Pl}}^2)+3\beta_3(\mathcal{M}_{\mathrm{Pl}}^2)+6\alpha_1(2\beta_1+\beta_2+3\beta_3+(\mathcal{M}_{\mathrm{Pl}}^2))+2\alpha_3(2\beta_1+\beta_2+3\beta_3+(\mathcal{M}_{\mathrm{Pl}}^2))+2\beta_1\theta^2\xi+\beta_2\theta^2\xi+3\beta_3\theta^2\xi+\theta^2(\mathcal{M}_{\mathrm{Pl}}^2)\xi)/((2\beta_1+\beta_2+3\beta_3)(\mathcal{M}_{\mathrm{Pl}}^2)(6\alpha_1+2\alpha_3-2\alpha_4+2\alpha_6+\theta^2\xi))>0$
Square mass:	$\frac{(\mathcal{M}_{\mathrm{Pl}}^2)(2\beta_1+\beta_2+3\beta_3+(\mathcal{M}_{\mathrm{Pl}}^2))}{2(2\beta_1+\beta_2+3\beta_3)(6\alpha_1+2\alpha_3-2\alpha_4+2\alpha_6+\theta^2\xi)}>0$
Spin:	0
Parity:	Even



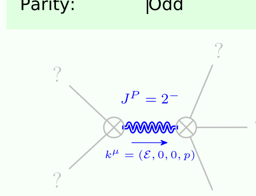
Massive particle

Pole residue:	$(-3\alpha_2(4\beta_1+2\beta_2-(\mathcal{M}_{\mathrm{Pl}}^2))+\alpha_3(4\beta_1+2\beta_2-(\mathcal{M}_{\mathrm{Pl}}^2))-2(8\alpha_4\beta_1-8\alpha_6\beta_1+4\alpha_4\beta_2-4\alpha_6\beta_2-2\alpha_4(\mathcal{M}_{\mathrm{Pl}}^2)+2\alpha_6(\mathcal{M}_{\mathrm{Pl}}^2)+2\beta_1(\mathcal{M}_{\mathrm{Pl}}^2)+\beta_2(\mathcal{M}_{\mathrm{Pl}}^2)-4\beta_1\theta^2\xi-2\beta_2\theta^2\xi+\theta^2(\mathcal{M}_{\mathrm{Pl}}^2)\xi))/((2\beta_1+\beta_2)(\mathcal{M}_{\mathrm{Pl}}^2)(3\alpha_2-\alpha_3+4\alpha_4-4\alpha_6-2\theta^2\xi))>0$
Square mass:	$\frac{(4\beta_1+2\beta_2-(\mathcal{M}_{\mathrm{Pl}}^2))(\mathcal{M}_{\mathrm{Pl}}^2)}{4(2\beta_1+\beta_2)(3\alpha_2-\alpha_3+4\alpha_4-4\alpha_6-2\theta^2\xi)}>0$
Spin:	2
Parity:	Even



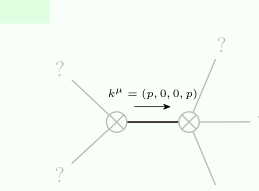
Massive particle

Pole residue:	$\frac{1}{-2\alpha_2-6\alpha_4+\theta^2\xi}>0$
Square mass:	$-\frac{8\beta_1-8\beta_2+(\mathcal{M}_{\mathrm{Pl}}^2)}{4\alpha_2+12\alpha_4-2\theta^2\xi}>0$
Spin:	0
Parity:	Odd



Massive particle

Pole residue:	$\frac{2}{2\alpha_2-\theta^2\xi}>0$
Square mass:	$\frac{4\beta_1+2\beta_2-(\mathcal{M}_{\mathrm{Pl}}^2)}{4\alpha_2-2\theta^2\xi}>0$
Spin:	2
Parity:	Odd



Massless particle

Pole residue:	$\frac{1}{(\mathcal{M}_{\mathrm{Pl}}^2)}>0$
Polarisations:	2

Unitarity conditions

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