	$\sigma_{1^+}^{\#1}{}_{\alpha\beta}$	$\sigma_{1^+}^{\#2}{}_{\alpha\beta}$	$\tau_{1^+}^{\#1}{}_{\alpha\beta}$	$\sigma_{1^-}^{\#1}{}_{\alpha}$	$\sigma_{1^-}^{\#2}{}_{\alpha}$	$\tau_{1^-}^{\#1}{}_{\alpha}$	$\tau_{1^-}^{\#2}{}_{\alpha}$
$\sigma_{1^+}^{\#1}\dagger^{\alpha\beta}$	$\frac{1}{-\frac{3(\alpha_0-4\beta_1)(\alpha_0+8\beta_3)}{16(\beta_1+2\beta_3)}+(\alpha_2+\alpha_5)k^2}$	$-\frac{2\sqrt{2}(3\alpha_0-4\beta_1+16\beta_3)}{(1+k^2)(-3(\alpha_0-4\beta_1)(\alpha_0+8\beta_3)+16(\alpha_2+\alpha_5)(\beta_1+2\beta_3)k^2)}$	$-\frac{2i\sqrt{2}(3\alpha_0-4\beta_1+16\beta_3)k}{(1+k^2)(-3(\alpha_0-4\beta_1)(\alpha_0+8\beta_3)+16(\alpha_2+\alpha_5)(\beta_1+2\beta_3)k^2)}$	0	0	0	0
$\sigma_{1^+}^{\#2}\dagger^{\alpha\beta}$	$-\frac{2\sqrt{2}(3\alpha_0-4\beta_1+16\beta_3)}{(1+k^2)(-3(\alpha_0-4\beta_1)(\alpha_0+8\beta_3)+16(\alpha_2+\alpha_5)(\beta_1+2\beta_3)k^2)}$	$\frac{6\alpha_0+8(\beta_1+8\beta_3+3(\alpha_2+\alpha_5)k^2)}{(1+k^2)^2(-3(\alpha_0-4\beta_1)(\alpha_0+8\beta_3)+16(\alpha_2+\alpha_5)(\beta_1+2\beta_3)k^2)}$	$\frac{2ik(3\alpha_0+4(\beta_1+8\beta_3+3(\alpha_2+\alpha_5)k^2))}{(1+k^2)^2(-3(\alpha_0-4\beta_1)(\alpha_0+8\beta_3)+16(\alpha_2+\alpha_5)(\beta_1+2\beta_3)k^2)}$	0	0	0	0
$\tau_{1^+}^{\#1}\dagger^{\alpha\beta}$	$\frac{2i\sqrt{2}(3\alpha_0-4\beta_1+16\beta_3)k}{(1+k^2)(-3(\alpha_0-4\beta_1)(\alpha_0+8\beta_3)+16(\alpha_2+\alpha_5)(\beta_1+2\beta_3)k^2)}$	$-\frac{2ik(3\alpha_0+4(\beta_1+8\beta_3+3(\alpha_2+\alpha_5)k^2))}{(1+k^2)^2(-3(\alpha_0-4\beta_1)(\alpha_0+8\beta_3)+16(\alpha_2+\alpha_5)(\beta_1+2\beta_3)k^2)}$	$\frac{2k^2(3\alpha_0+4(\beta_1+8\beta_3+3(\alpha_2+\alpha_5)k^2))}{(1+k^2)^2(-3(\alpha_0-4\beta_1)(\alpha_0+8\beta_3)+16(\alpha_2+\alpha_5)(\beta_1+2\beta_3)k^2)}$	0	0	0	0
$\sigma_{1^-}^{\#1}\dagger^{\alpha}$	0	0	0	$\frac{1}{-\frac{3(\alpha_0-4\beta_1)(\alpha_0+2\beta_2)}{8(2\beta_1+\beta_2)}+(\alpha_4+\alpha_5)k^2}$	$\frac{2\sqrt{2}(3\alpha_0-4\beta_1+4\beta_2)}{(1+2k^2)(-3(\alpha_0-4\beta_1)(\alpha_0+2\beta_2)+8(\alpha_4+\alpha_5)(2\beta_1+\beta_2)k^2)}$	0	$\frac{4i(3\alpha_0-4\beta_1+4\beta_2)k}{(1+2k^2)(-3(\alpha_0-4\beta_1)(\alpha_0+2\beta_2)+8(\alpha_4+\alpha_5)(2\beta_1+\beta_2)k^2)}$
$\sigma_{1^-}^{\#2}\dagger^{\alpha}$	0	0	0	$\frac{2\sqrt{2}(3\alpha_0-4\beta_1+4\beta_2)}{(1+2k^2)(-3(\alpha_0-4\beta_1)(\alpha_0+2\beta_2)+8(\alpha_4+\alpha_5)(2\beta_1+\beta_2)k^2)}$	$\frac{6\alpha_0+8(\beta_1+2\beta_2+3(\alpha_4+\alpha_5)k^2)}{(1+2k^2)^2(-3(\alpha_0-4\beta_1)(\alpha_0+2\beta_2)+8(\alpha_4+\alpha_5)(2\beta_1+\beta_2)k^2)}$	0	$\frac{2i\sqrt{2}k(3\alpha_0+4(\beta_1+2\beta_2+3(\alpha_4+\alpha_5)k^2))}{(1+2k^2)^2(-3(\alpha_0-4\beta_1)(\alpha_0+2\beta_2)+8(\alpha_4+\alpha_5)(2\beta_1+\beta_2)k^2)}$
$\tau_{1^-}^{\#1}\dagger^{\alpha}$	0	0	0	0	0	0	0
$\tau_{1^-}^{\#2}\dagger^{\alpha}$	0	0	0	$-\frac{4i(3\alpha_0-4\beta_1+4\beta_2)k}{(1+2k^2)(-3(\alpha_0-4\beta_1)(\alpha_0+2\beta_2)+8(\alpha_4+\alpha_5)(2\beta_1+\beta_2)k^2)}$	$-\frac{2i\sqrt{2}k(3\alpha_0+4(\beta_1+2\beta_2+3(\alpha_4+\alpha_5)k^2))}{(1+2k^2)^2(-3(\alpha_0-4\beta_1)(\alpha_0+2\beta_2)+8(\alpha_4+\alpha_5)(2\beta_1+\beta_2)k^2)}$	0	$\frac{4k^2(3\alpha_0+4(\beta_1+2\beta_2+3(\alpha_4+\alpha_5)k^2))}{(1+2k^2)^2(-3(\alpha_0-4\beta_1)(\alpha_0+2\beta_2)+8(\alpha_4+\alpha_5)(2\beta_1+\beta_2)k^2)}$

Lagrangian density

$$-\tfrac{1}{2}\alpha_0\,\omega_{\alpha\chi\beta}\,\omega^{\alpha\beta\chi}-\tfrac{1}{2}\alpha_0\,\omega^{\alpha\beta}{}_{\alpha}\,\omega_{\beta}{}^{\chi}{}_{\chi}+\tfrac{2}{3}\beta_1\,\omega^{\alpha\beta}{}_{\alpha}\,\omega_{\beta}{}^{\chi}{}_{\chi}-\tfrac{2}{3}\beta_2\,\omega^{\alpha\beta}{}_{\alpha}\,\omega_{\beta}{}^{\chi}{}_{\chi}-$$
$$\tfrac{2}{3}\beta_1\,\omega_{\alpha}{}^{\chi\delta}\,\omega_{\chi\delta}{}^{\alpha}+\tfrac{8}{3}\beta_3\,\omega_{\alpha}{}^{\chi\delta}\,\omega_{\chi\delta}{}^{\alpha}+\tfrac{2}{3}\beta_1\,\omega_{\chi\delta}{}^{\alpha}\,\omega^{\chi\delta}{}_{\alpha}+\tfrac{4}{3}\beta_3\,\omega_{\chi\delta}{}^{\alpha}\,\omega^{\chi\delta}{}_{\alpha}+$$
$$f^{\alpha\beta}\,\tau_{\alpha\beta}+\omega^{\alpha\beta\chi}\,\sigma_{\alpha\beta\chi}+\alpha_1\,\partial_{\alpha}\omega^{\chi\delta}{}_{\chi}\partial^{\alpha}\omega_{\delta}{}^{\zeta}{}_{\zeta}+\alpha_2\,\partial_{\alpha}\omega^{\chi\delta}{}_{\chi}\partial^{\alpha}\omega_{\delta}{}^{\zeta}{}_{\zeta}-$$
$$\alpha_4\,\partial_{\alpha}\omega^{\chi\delta}{}_{\chi}\partial^{\alpha}\omega_{\delta}{}^{\zeta}{}_{\zeta}-\alpha_5\,\partial_{\alpha}\omega^{\chi\delta}{}_{\chi}\partial^{\alpha}\omega_{\delta}{}^{\zeta}{}_{\zeta}-\tfrac{2}{3}\beta_1\,\omega_{\alpha}{}^{\chi}{}_{\chi}\,\partial_{\beta}f^{\alpha\beta}+\tfrac{2}{3}\beta_2\,\omega_{\alpha}{}^{\chi}{}_{\chi}\,\partial_{\beta}f^{\alpha\beta}-$$
$$\tfrac{2}{3}\beta_1\,\omega_{\alpha}{}^{\delta}{}_{\delta}\,\partial_{\beta}f^{\alpha\beta}+\tfrac{2}{3}\beta_2\,\omega_{\alpha}{}^{\delta}{}_{\delta}\,\partial_{\beta}f^{\alpha\beta}-\alpha_0\,f^{\alpha\beta}\,\partial_{\beta}\omega_{\alpha}{}^{\chi}{}_{\chi}+\alpha_0\,\partial_{\beta}\omega^{\alpha\beta}{}_{\alpha}-$$
$$\tfrac{2}{3}\alpha_1\,\partial^{\alpha}\omega^{\beta\zeta}{}_{\chi}\partial_{\beta}\omega_{\zeta\alpha}{}^{\chi}+\tfrac{2}{3}\alpha_3\,\partial^{\alpha}\omega^{\beta\zeta}{}_{\chi}\partial_{\beta}\omega_{\zeta\alpha}{}^{\chi}+\tfrac{2}{3}\beta_1\,\omega_{\beta}{}^{\chi}{}_{\chi}\,\partial^{\beta}f^{\alpha}{}_{\alpha}-$$
$$\tfrac{2}{3}\beta_2\,\omega_{\beta}{}^{\chi}{}_{\chi}\,\partial^{\beta}f^{\alpha}{}_{\alpha}+\tfrac{2}{3}\beta_1\,\omega_{\beta}{}^{\delta}{}_{\delta}\,\partial^{\beta}f^{\alpha}{}_{\alpha}-\tfrac{2}{3}\beta_2\,\omega_{\beta}{}^{\delta}{}_{\delta}\,\partial^{\beta}f^{\alpha}{}_{\alpha}-\tfrac{2}{3}\beta_1\,\partial_{\beta}f^{\chi}{}_{\chi}\partial^{\beta}f^{\alpha}{}_{\alpha}+$$
$$\tfrac{2}{3}\beta_2\,\partial_{\beta}f^{\chi}{}_{\chi}\partial^{\beta}f^{\alpha}{}_{\alpha}+\alpha_0\,f^{\alpha\beta}\,\partial_{\chi}\omega_{\alpha}{}^{\chi}{}_{\beta}-\alpha_0\,f^{\alpha}{}_{\alpha}\,\partial_{\chi}\omega^{\beta\chi}{}_{\beta}+\alpha_1\,\partial_{\beta}\omega_{\delta}{}^{\zeta}{}_{\zeta}\partial_{\chi}\omega^{\beta\chi\delta}-$$
$$\alpha_2\,\partial_{\beta}\omega_{\delta}{}^{\zeta}{}_{\zeta}\partial_{\chi}\omega^{\beta\chi\delta}-\alpha_4\,\partial_{\beta}\omega_{\delta}{}^{\zeta}{}_{\zeta}\partial_{\chi}\omega^{\beta\chi\delta}+\alpha_5\,\partial_{\beta}\omega_{\delta}{}^{\zeta}{}_{\zeta}\partial_{\chi}\omega^{\beta\chi\delta}+\tfrac{2}{3}\alpha_1\,\partial_{\beta}\omega_{\zeta\alpha}{}^{\chi}\partial_{\chi}\omega^{\beta\zeta\alpha}-$$
$$\tfrac{2}{3}\alpha_3\,\partial_{\beta}\omega_{\zeta\alpha}{}^{\chi}\partial_{\chi}\omega^{\beta\zeta\alpha}-2\alpha_1\,\partial_{\beta}\omega_{\delta}{}^{\zeta}{}_{\zeta}\partial_{\chi}\omega^{\chi\delta\beta}-2\alpha_2\,\partial_{\beta}\omega_{\delta}{}^{\zeta}{}_{\zeta}\partial_{\chi}\omega^{\chi\delta\beta}+$$
$$2\alpha_4\,\partial_{\beta}\omega_{\delta}{}^{\zeta}{}_{\zeta}\partial_{\chi}\omega^{\chi\delta\beta}+2\alpha_5\,\partial_{\beta}\omega_{\delta}{}^{\zeta}{}_{\zeta}\partial_{\chi}\omega^{\chi\delta\beta}-\tfrac{2}{3}\alpha_1\,\partial_{\beta}\omega_{\zeta\alpha}{}^{\chi}\partial_{\chi}\omega^{\zeta\alpha\beta}-$$
$$\alpha_2\,\partial_{\beta}\omega_{\zeta\alpha}{}^{\chi}\partial_{\chi}\omega^{\zeta\alpha\beta}-\tfrac{1}{3}\alpha_3\,\partial_{\beta}\omega_{\zeta\alpha}{}^{\chi}\partial_{\chi}\omega^{\zeta\alpha\beta}+\tfrac{2}{3}\beta_1\,\omega_{\alpha\beta\chi}\,\partial^{\chi}f^{\alpha\beta}+$$
$$\tfrac{4}{3}\beta_3\,\omega_{\alpha\beta\chi}\,\partial^{\chi}f^{\alpha\beta}+\tfrac{8}{3}\beta_1\,\omega_{\alpha\chi\beta}\,\partial^{\chi}f^{\alpha\beta}-\tfrac{8}{3}\beta_3\,\omega_{\alpha\chi\beta}\,\partial^{\chi}f^{\alpha\beta}-\tfrac{2}{3}\beta_1\,\omega_{\beta\alpha\chi}\,\partial^{\chi}f^{\alpha\beta}-$$
$$\tfrac{4}{3}\beta_3\,\omega_{\beta\alpha\chi}\,\partial^{\chi}f^{\alpha\beta}+\tfrac{4}{3}\beta_1\,\omega_{\beta\chi\alpha}\,\partial^{\chi}f^{\alpha\beta}+\tfrac{8}{3}\beta_3\,\omega_{\beta\chi\alpha}\,\partial^{\chi}f^{\alpha\beta}+\tfrac{2}{3}\beta_1\,\partial_{\chi}f_{\beta}{}^{\delta}\partial^{\chi}f_{\delta}{}^{\beta}-$$
$$\tfrac{2}{3}\beta_3\,\partial_{\chi}f_{\beta}{}^{\delta}\partial^{\chi}f_{\delta}{}^{\beta}+\tfrac{4}{3}\beta_1\,\partial_{\chi}f^{\delta}{}_{\beta}\partial^{\chi}f_{\delta}{}^{\beta}+\tfrac{2}{3}\beta_3\,\partial_{\chi}f^{\delta}{}_{\beta}\partial^{\chi}f_{\delta}{}^{\beta}-\tfrac{2}{3}\alpha_1\,\partial_{\chi}\omega^{\beta\zeta\alpha}\partial^{\chi}\omega_{\zeta\alpha\beta}+$$
$$\tfrac{2}{3}\alpha_3\,\partial_{\chi}\omega^{\beta\zeta\alpha}\partial^{\chi}\omega_{\zeta\alpha\beta}+\tfrac{2}{3}\alpha_1\,\partial_{\chi}\omega^{\zeta\alpha\beta}\partial^{\chi}\omega_{\zeta\alpha\beta}+\alpha_2\,\partial_{\chi}\omega^{\zeta\alpha\beta}\partial^{\chi}\omega_{\zeta\alpha\beta}+$$
$$\tfrac{1}{3}\alpha_3\,\partial_{\chi}\omega^{\zeta\alpha\beta}\partial^{\chi}\omega_{\zeta\alpha\beta}+\tfrac{4}{3}\beta_1\,\partial^{\beta}f^{\alpha}{}_{\alpha}\partial_{\delta}f_{\beta}{}^{\delta}-\tfrac{4}{3}\beta_2\,\partial^{\beta}f^{\alpha}{}_{\alpha}\partial_{\delta}f_{\beta}{}^{\delta}-\tfrac{2}{3}\beta_1\,\partial_{\beta}f_{\chi}{}^{\beta}\partial_{\delta}f^{\chi\delta}+$$
$$\tfrac{2}{3}\beta_2\,\partial_{\beta}f_{\chi}{}^{\beta}\partial_{\delta}f^{\chi\delta}+\tfrac{4}{3}\alpha_1\,\partial_{\beta}\omega^{\alpha\beta}{}_{\alpha}\partial_{\delta}\omega^{\chi\delta}{}_{\chi}-2\alpha_4\,\partial_{\beta}\omega^{\alpha\beta}{}_{\alpha}\partial_{\delta}\omega^{\chi\delta}{}_{\chi}+$$
$$\tfrac{2}{3}\alpha_6\,\partial_{\beta}\omega^{\alpha\beta}{}_{\alpha}\partial_{\delta}\omega^{\chi\delta}{}_{\chi}+\tfrac{4}{3}\alpha_1\,\partial^{\beta}\omega_{\alpha}{}^{\delta\zeta}\partial_{\delta}\omega_{\zeta\beta}{}^{\alpha}-2\alpha_2\,\partial^{\beta}\omega_{\alpha}{}^{\delta\zeta}\partial_{\delta}\omega_{\zeta\beta}{}^{\alpha}+$$
$$\tfrac{2}{3}\alpha_3\,\partial^{\beta}\omega_{\alpha}{}^{\delta\zeta}\partial_{\delta}\omega_{\zeta\beta}{}^{\alpha}+\tfrac{2}{3}\alpha_1\,\partial^{\beta}\omega_{\alpha}{}^{\zeta\delta}\partial_{\delta}\omega_{\zeta\beta}{}^{\alpha}-\tfrac{2}{3}\alpha_3\,\partial^{\beta}\omega_{\alpha}{}^{\zeta\delta}\partial_{\delta}\omega_{\zeta\beta}{}^{\alpha}-$$
$$\alpha_1\,\partial_{\beta}\omega_{\delta}{}^{\zeta}{}_{\zeta}\partial^{\delta}\omega^{\beta\chi}{}_{\chi}+\alpha_2\,\partial_{\beta}\omega_{\delta}{}^{\zeta}{}_{\zeta}\partial^{\delta}\omega^{\beta\chi}{}_{\chi}+\alpha_4\,\partial_{\beta}\omega_{\delta}{}^{\zeta}{}_{\zeta}\partial^{\delta}\omega^{\beta\chi}{}_{\chi}-\alpha_5\,\partial_{\beta}\omega_{\delta}{}^{\zeta}{}_{\zeta}\partial^{\delta}\omega^{\beta\chi}{}_{\chi}-$$
$$\alpha_1\,\partial_{\chi}\omega^{\beta\chi\delta}\partial_{\zeta}\omega_{\delta}{}^{\zeta}{}_{\beta}+\alpha_2\,\partial_{\chi}\omega^{\beta\chi\delta}\partial_{\zeta}\omega_{\delta}{}^{\zeta}{}_{\beta}+\alpha_4\,\partial_{\chi}\omega^{\beta\chi\delta}\partial_{\zeta}\omega_{\delta}{}^{\zeta}{}_{\beta}-\alpha_5\,\partial_{\chi}\omega^{\beta\chi\delta}\partial_{\zeta}\omega_{\delta}{}^{\zeta}{}_{\beta}+$$
$$\alpha_1\,\partial_{\chi}\omega^{\chi\delta\beta}\partial_{\zeta}\omega_{\delta}{}^{\zeta}{}_{\beta}+\alpha_2\,\partial_{\chi}\omega^{\chi\delta\beta}\partial_{\zeta}\omega_{\delta}{}^{\zeta}{}_{\beta}-\alpha_4\,\partial_{\chi}\omega^{\chi\delta\beta}\partial_{\zeta}\omega_{\delta}{}^{\zeta}{}_{\beta}-\alpha_5\,\partial_{\chi}\omega^{\chi\delta\beta}\partial_{\zeta}\omega_{\delta}{}^{\zeta}{}_{\beta}+$$
$$\alpha_1\,\partial^{\delta}\omega^{\beta\chi}{}_{\chi}\partial_{\zeta}\omega_{\delta}{}^{\zeta}{}_{\beta}-\alpha_2\,\partial^{\delta}\omega^{\beta\chi}{}_{\chi}\partial_{\zeta}\omega_{\delta}{}^{\zeta}{}_{\beta}-\alpha_4\,\partial^{\delta}\omega^{\beta\chi}{}_{\chi}\partial_{\zeta}\omega_{\delta}{}^{\zeta}{}_{\beta}+\alpha_5\,\partial^{\delta}\omega^{\beta\chi}{}_{\chi}\partial_{\zeta}\omega_{\delta}{}^{\zeta}{}_{\beta}-$$
$$\tfrac{2}{3}\beta_1\,\partial^{\chi}f_{\zeta}{}^{\beta}\partial^{\zeta}f_{\beta\chi}+\tfrac{2}{3}\beta_3\,\partial^{\chi}f_{\zeta}{}^{\beta}\partial^{\zeta}f_{\beta\chi}-\tfrac{4}{3}\beta_1\,\partial^{\chi}f_{\zeta}{}^{\beta}\partial^{\zeta}f_{\chi\beta}-\tfrac{2}{3}\beta_3\,\partial^{\chi}f_{\zeta}{}^{\beta}\partial^{\zeta}f_{\chi\beta}+$$
$$\tfrac{2}{3}\beta_1\,\partial^{\chi}f_{\delta\zeta}\partial^{\zeta}f^{\delta}{}_{\chi}-\tfrac{2}{3}\beta_3\,\partial^{\chi}f_{\delta\zeta}\partial^{\zeta}f^{\delta}{}_{\chi}-\tfrac{2}{3}\beta_1\,\partial^{\chi}f_{\zeta\delta}\partial^{\zeta}f^{\delta}{}_{\chi}+\tfrac{2}{3}\beta_3\,\partial^{\chi}f_{\zeta\delta}\partial^{\zeta}f^{\delta}{}_{\chi}$$

	$\omega_{1^+}^{\#1}{}_{\alpha\beta}$	$\omega_{1^+}^{\#2}{}_{\alpha\beta}$	$f_{1^+}^{\#1}{}_{\alpha\beta}$	$\omega_{1^-}^{\#1}{}_{\alpha}$	$\omega_{1^-}^{\#2}{}_{\alpha}$	$f_{1^-}^{\#1}{}_{\alpha}$	$f_{1^-}^{\#2}{}_{\alpha}$
$\omega_{1^+}^{\#1}\dagger^{\alpha\beta}$	$\frac{\alpha_0}{4}+\frac{1}{3}(\beta_1+8\beta_3)+(\alpha_2+\alpha_5)k^2$	$\frac{3\alpha_0-4\beta_1+16\beta_3}{6\sqrt{2}}$	$\frac{i(3\alpha_0-4\beta_1+16\beta_3)k}{6\sqrt{2}}$	0	0	0	0
$\omega_{1^+}^{\#2}\dagger^{\alpha\beta}$	$\frac{3\alpha_0-4\beta_1+16\beta_3}{6\sqrt{2}}$	$\frac{2}{3}(\beta_1+2\beta_3)$	$\frac{2}{3}i(\beta_1+2\beta_3)k$	0	0	0	0
$f_{1^+}^{\#1}\dagger^{\alpha\beta}$	$-\frac{i(3\alpha_0-4\beta_1+16\beta_3)k}{6\sqrt{2}}$	$-\frac{2}{3}i(\beta_1+2\beta_3)k$	$\frac{2}{3}(\beta_1+2\beta_3)k^2$	0	0	0	0
$\omega_{1^-}^{\#1}\dagger^{\alpha}$	0	0	0	$\frac{\alpha_0}{4}+\frac{1}{3}(\beta_1+2\beta_2)+(\alpha_4+\alpha_5)k^2$	$-\frac{3\alpha_0-4\beta_1+4\beta_2}{6\sqrt{2}}$	0	$-\frac{1}{6}i(3\alpha_0-4\beta_1+4\beta_2)k$
$\omega_{1^-}^{\#2}\dagger^{\alpha}$	0	0	0	$-\frac{3\alpha_0-4\beta_1+4\beta_2}{6\sqrt{2}}$	$\frac{1}{3}(2\beta_1+\beta_2)$	0	$\frac{1}{3}i\sqrt{2}(2\beta_1+\beta_2)k$
$f_{1^-}^{\#1}\dagger^{\alpha}$	0	0	0	0	0	0	0
$f_{1^-}^{\#2}\dagger^{\alpha}$	0	0	0	$\frac{1}{6}i(3\alpha_0-4\beta_1+4\beta_2)k$	$-\frac{1}{3}i\sqrt{2}(2\beta_1+\beta_2)k$	0	$\frac{2}{3}(2\beta_1+\beta_2)k^2$

	$\omega_{0^+}^{\#1}$	$f_{0^+}^{\#1}$	$f_{0^+}^{\#2}$	$\omega_{0^-}^{\#1}$
$\omega_{0^+}^{\#1}\dagger$	$\frac{\alpha_0}{2}+\beta_2+(\alpha_4+\alpha_6)k^2$	$-\frac{i(\alpha_0+2\beta_2)k}{\sqrt{2}}$	0	0
$f_{0^+}^{\#1}\dagger$	$\frac{i(\alpha_0+2\beta_2)k}{\sqrt{2}}$	$2\beta_2k^2$	0	0
$f_{0^+}^{\#2}\dagger$	0	0	0	0
$\omega_{0^-}^{\#1}\dagger$	0	0	0	$\frac{\alpha_0}{2}+4\beta_3+(\alpha_2+\alpha_3)k^2$

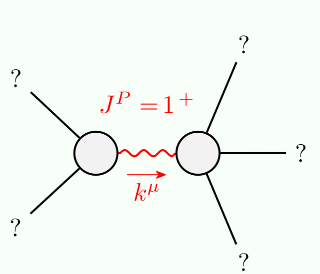
Source constraints

SO(3) irreps	#
$\tau_{0^+}^{\#2}==0$	1
$\tau_{1^-}^{\#2\alpha}+2ik\,\sigma_{1^-}^{\#2\alpha}==0$	3
$\tau_{1^-}^{\#1\alpha}==0$	3
$\tau_{1^+}^{\#1\alpha\beta}+ik\,\sigma_{1^+}^{\#2\alpha\beta}==0$	3
Total #:	10

	$\omega_{2^+}^{\#1}{}_{\alpha\beta}$	$f_{2^+}^{\#1}{}_{\alpha\beta}$	$\omega_{2^-}^{\#1}{}_{\alpha\beta\chi}$
$\omega_{2^+}^{\#1}\dagger^{\alpha\beta}$	$-\frac{\alpha_0}{4}+\beta_1+(\alpha_1+\alpha_4)k^2$	$\frac{i(\alpha_0-4\beta_1)k}{2\sqrt{2}}$	0
$f_{2^+}^{\#1}\dagger^{\alpha\beta}$	$-\frac{i(\alpha_0-4\beta_1)k}{2\sqrt{2}}$	$2\beta_1k^2$	0
$\omega_{2^-}^{\#1}\dagger^{\alpha\beta\chi}$	0	0	$-\frac{\alpha_0}{4}+\beta_1+(\alpha_1+\alpha_2)k^2$

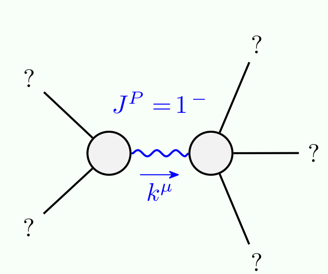
	$\sigma_{0^+}^{\#1}$	$\tau_{0^+}^{\#1}$	$\tau_{0^+}^{\#2}$	$\sigma_{0^-}^{\#1}$
$\sigma_{0^+}^{\#1}\dagger$	$-\frac{4\beta_2}{\alpha_0^2+2\alpha_0\beta_2-4(\alpha_4+\alpha_6)\beta_2k^2}$	$\frac{i\sqrt{2}(\alpha_0+2\beta_2)}{-\alpha_0(\alpha_0+2\beta_2)k+4(\alpha_4+\alpha_6)\beta_2k^3}$	0	0
$\tau_{0^+}^{\#1}\dagger$	$\frac{i\sqrt{2}(\alpha_0+2\beta_2)}{\alpha_0(\alpha_0+2\beta_2)k-4(\alpha_4+\alpha_6)\beta_2k^3}$	$\frac{\frac{\alpha_0}{2}+\beta_2+(\alpha_4+\alpha_6)k^2}{-\frac{1}{2}\alpha_0(\alpha_0+2\beta_2)k^2+2(\alpha_4+\alpha_6)\beta_2k^4}$	0	0
$\tau_{0^+}^{\#2}\dagger$	0	0	0	0
$\sigma_{0^-}^{\#1}\dagger$	0	0	0	$\frac{2}{\alpha_0+8\beta_3+2(\alpha_2+\alpha_3)k^2}$

	$\sigma_{2^+}^{\#1}{}_{\alpha\beta}$	$\tau_{2^+}^{\#1}{}_{\alpha\beta}$	$\sigma_{2^-}^{\#1}{}_{\alpha\beta\chi}$
$\sigma_{2^+}^{\#1}\dagger^{\alpha\beta}$	$\frac{16\beta_1}{-\alpha_0^2+4\alpha_0\beta_1+16(\alpha_1+\alpha_4)\beta_1k^2}$	$\frac{2i\sqrt{2}(\alpha_0-4\beta_1)}{\alpha_0(\alpha_0-4\beta_1)k-16(\alpha_1+\alpha_4)\beta_1k^3}$	0
$\tau_{2^+}^{\#1}\dagger^{\alpha\beta}$	$-\frac{2i\sqrt{2}(\alpha_0-4\beta_1)}{\alpha_0(\alpha_0-4\beta_1)k-16(\alpha_1+\alpha_4)\beta_1k^3}$	$\frac{2(\alpha_0-4(\beta_1+(\alpha_1+\alpha_4)k^2))}{k^2(\alpha_0^2-4\alpha_0\beta_1-16(\alpha_1+\alpha_4)\beta_1k^2)}$	0
$\sigma_{2^-}^{\#1}\dagger^{\alpha\beta\chi}$	0	0	$\frac{1}{-\frac{\alpha_0}{4}+\beta_1+(\alpha_1+\alpha_2)k^2}$



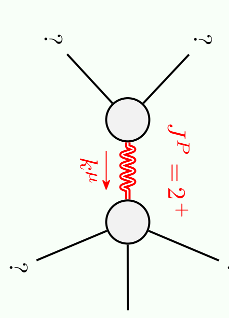
Massive particle

Pole residue:	$(3(\alpha_0^2(3\alpha_2+3\alpha_5+2\beta_1+4\beta_3)-8\alpha_0(\beta_1^2+\alpha_2(\beta_1-4\beta_3)+\alpha_5(\beta_1-4\beta_3)-4\beta_3^2)+16(-4\beta_1\beta_3(\beta_1+2\beta_3)+\alpha_2(\beta_1^2+8\beta_3^2)+\alpha_5(\beta_1^2+8\beta_3^2))))/(2(\alpha_2+\alpha_5)(\beta_1+2\beta_3)(3\alpha_0^2-12\alpha_0(\beta_1-2\beta_3)+16(\alpha_5\beta_1+2\alpha_5\beta_3-6\beta_1\beta_3+\alpha_2(\beta_1+2\beta_3)))) > 0$
Polarisations:	3
Square mass:	$\frac{3(\alpha_0-4\beta_1)(\alpha_0+8\beta_3)}{16(\alpha_2+\alpha_5)(\beta_1+2\beta_3)} > 0$
Spin:	1
Parity:	Even



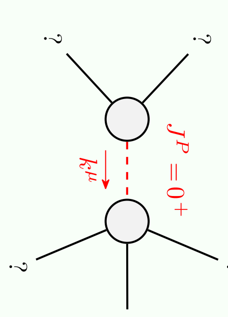
Massive particle

Pole residue:	$-((3(\alpha_0^2(3\alpha_4+3\alpha_5+4\beta_1+2\beta_2)+4\alpha_0(-2\alpha_4\beta_1-2\alpha_5\beta_1-4\beta_1^2+2\alpha_4\beta_2+2\alpha_5\beta_2+\beta_2^2)+8(-2\beta_1\beta_2(2\beta_1+\beta_2)+\alpha_4(2\beta_1^2+\beta_2^2)+\alpha_5(2\beta_1^2+\beta_2^2))))/(2(\alpha_4+\alpha_5)(2\beta_1+\beta_2)(3\alpha_0^2+6\alpha_0(-2\beta_1+\beta_2)+4(2\alpha_5\beta_1+\alpha_5\beta_2-6\beta_1\beta_2+\alpha_4(2\beta_1+\beta_2))))) > 0$
Polarisations:	3
Square mass:	$\frac{3(\alpha_0-4\beta_1)(\alpha_0+2\beta_2)}{8(\alpha_4+\alpha_5)(2\beta_1+\beta_2)} > 0$
Spin:	1
Parity:	Odd



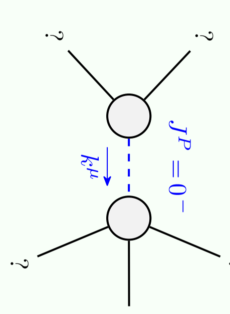
Massive particle

Pole residue:	$-\frac{2}{\alpha_0}+\frac{\alpha_1+\alpha_4+2\beta_1}{2\alpha_1\beta_1+2\alpha_4\beta_1} > 0$
Polarisations:	5
Square mass:	$\frac{\alpha_0(\alpha_0-4\beta_1)}{16(\alpha_1+\alpha_4)\beta_1} > 0$
Spin:	2
Parity:	Even



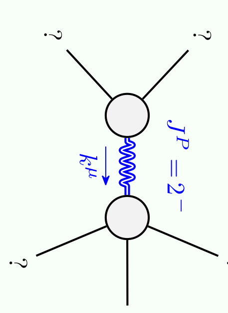
Massive particle

Pole residue:	$\frac{1}{\alpha_0}+\frac{\alpha_4+\alpha_6+2\beta_2}{2\alpha_4\beta_2+2\alpha_6\beta_2} > 0$
Polarisations:	1
Square mass:	$\frac{\alpha_0(\alpha_0+2\beta_2)}{4(\alpha_4+\alpha_6)\beta_2} > 0$
Spin:	0
Parity:	Even



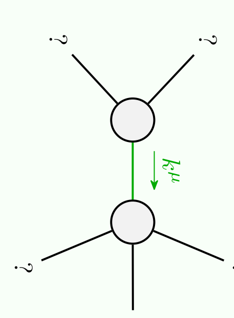
Massive particle

Pole residue:	$-\frac{1}{\alpha_2+\alpha_3} > 0$
Polarisations:	1
Square mass:	$-\frac{\alpha_0+8\beta_3}{2(\alpha_2+\alpha_3)} > 0$
Spin:	0
Parity:	Odd



Massive particle

Pole residue:	$-\frac{1}{\alpha_1+\alpha_2} > 0$
Polarisations:	5
Square mass:	$\frac{\alpha_0-4\beta_1}{4(\alpha_1+\alpha_2)} > 0$
Spin:	2
Parity:	Odd



Quadratic pole

Pole residue:	$\frac{1}{\alpha_0} > 0$
Polarisations:	2

(Unitarity is demonstrably impossible)