	$\omega_{1^+}^{\#1}{}_{\alpha\beta}$	$\omega_{1^+}^{\#2}{}_{\alpha\beta}$	$f_{1^+}^{\#1}{}_{\alpha\beta}$	$\omega_{1^-}^{\#1}{}_{\alpha}$	$\omega_{1^-}^{\#2}{}_{\alpha}$	$f_{1^-}^{\#1}{}_{\alpha}$	$f_{1^-}^{\#2}{}_{\alpha}$
$\omega_{1^+}^{\#1}{}^{\dagger\alpha\beta}$	$k^2 r_5 + \frac{t_1}{6}$	$-\frac{t_1}{3\sqrt{2}}$	$-\frac{i k t_1}{3\sqrt{2}}$	0	0	0	0
$\omega_{1^+}^{\#2}{}^{\dagger\alpha\beta}$	$-\frac{t_1}{3\sqrt{2}}$	$\frac{t_1}{3}$	$\frac{i k t_1}{3}$	0	0	0	0
$f_{1^+}^{\#1}{}^{\dagger\alpha\beta}$	$\frac{i k t_1}{3\sqrt{2}}$	$-\frac{1}{3} i k t_1$	$\frac{k^2 t_1}{3}$	0	0	0	0
$\omega_{1^-}^{\#1}{}^{\dagger\alpha}$	0	0	0	$k^2 r_5 - \frac{t_1}{2}$	$\frac{t_1}{\sqrt{2}}$	0	$i k t_1$
$\omega_{1^-}^{\#2}{}^{\dagger\alpha}$	0	0	0	$\frac{t_1}{\sqrt{2}}$	0	0	0
$f_{1^-}^{\#1}{}^{\dagger\alpha}$	0	0	0	0	0	0	0
$f_{1^-}^{\#2}{}^{\dagger\alpha}$	0	0	0	$-i k t_1$	0	0	0

	$\sigma_{2^+}^{\#1}{}_{\alpha\beta}$	$\tau_{2^+}^{\#1}{}_{\alpha\beta}$	$\sigma_{2^-}^{\#1}{}_{\alpha\beta\chi}$
$\sigma_{2^+}^{\#1}{}^{\dagger\alpha\beta}$	$\frac{2}{(1+2k^2)^2 t_1}$	$-\frac{2 i \sqrt{2}\, k}{(1+2k^2)^2 t_1}$	0
$\tau_{2^+}^{\#1}{}^{\dagger\alpha\beta}$	$\frac{2 i \sqrt{2}\, k}{(1+2k^2)^2 t_1}$	$\frac{4k^2}{(1+2k^2)^2 t_1}$	0
$\sigma_{2^-}^{\#1}{}^{\dagger\alpha\beta\chi}$	0	0	$\frac{2}{t_1}$

	$\omega_{0^+}^{\#1}$	$f_{0^+}^{\#1}$	$f_{0^+}^{\#2}$	$\omega_{0^-}^{\#1}$
$\omega_{0^+}^{\#1}{}^{\dagger}$	$-t_1$	$i\sqrt{2}\, k t_1$	0	0
$f_{0^+}^{\#1}{}^{\dagger}$	$-i\sqrt{2}\, k t_1$	$-2k^2 t_1$	0	0
$f_{0^+}^{\#2}{}^{\dagger}$	0	0	0	0
$\omega_{0^-}^{\#1}{}^{\dagger}$	0	0	0	0

	$\omega_{2^+}^{\#1}{}_{\alpha\beta}$	$f_{2^+}^{\#1}{}_{\alpha\beta}$	$\omega_{2^-}^{\#1}{}_{\alpha\beta\chi}$
$\omega_{2^+}^{\#1}{}^{\dagger\alpha\beta}$	$\frac{t_1}{2}$	$-\frac{i k t_1}{\sqrt{2}}$	0
$f_{2^+}^{\#1}{}^{\dagger\alpha\beta}$	$\frac{i k t_1}{\sqrt{2}}$	$k^2 t_1$	0
$\omega_{2^-}^{\#1}{}^{\dagger\alpha\beta\chi}$	0	0	$\frac{t_1}{2}$

	$\sigma_{0^+}^{\#1}$	$\tau_{0^+}^{\#1}$	$\tau_{0^+}^{\#2}$	$\sigma_{0^-}^{\#1}$
$\sigma_{0^+}^{\#1}{}^{\dagger}$	$-\frac{1}{(1+2k^2)^2 t_1}$	$\frac{i\sqrt{2}\, k}{(1+2k^2)^2 t_1}$	0	0
$\tau_{0^+}^{\#1}{}^{\dagger}$	$-\frac{i\sqrt{2}\, k}{(1+2k^2)^2 t_1}$	$-\frac{2k^2}{(1+2k^2)^2 t_1}$	0	0
$\tau_{0^+}^{\#2}{}^{\dagger}$	0	0	0	0
$\sigma_{0^-}^{\#1}{}^{\dagger}$	0	0	0	0

Lagrangian density

$$
\begin{aligned}
&-t_1\,\omega_{\iota}{}^{\alpha\iota}\,\omega_{\kappa\alpha}{}^{\kappa} - \tfrac{1}{3} t_1\,\omega_{\iota}{}^{\kappa\lambda}\,\omega_{\kappa\lambda}{}^{\iota} + \tfrac{1}{3} t_1\,\omega_{\kappa\lambda}{}^{\iota}\,\omega^{\kappa\lambda}{}_{\iota} - \\
&r_5\,\partial_{\iota}\omega^{\kappa\lambda}{}_{\kappa}\,\partial^{\iota}\omega_{\lambda}{}^{\alpha}{}_{\alpha} - r_5\,\partial_{\alpha}\omega_{\lambda}{}^{\alpha}{}_{\theta}\,\partial_{\kappa}\omega^{\theta\kappa\lambda} + r_5\,\partial_{\theta}\omega_{\lambda}{}^{\alpha}{}_{\alpha}\,\partial_{\kappa}\omega^{\theta\kappa\lambda} - \\
&r_5\,\partial_{\alpha}\omega_{\lambda}{}^{\alpha}{}_{\theta}\,\partial_{\kappa}\omega^{\kappa\lambda\theta} + 2\,r_5\,\partial_{\theta}\omega_{\lambda}{}^{\alpha}{}_{\alpha}\,\partial_{\kappa}\omega^{\kappa\lambda\theta} - \tfrac{1}{3} t_1\,\partial^{\alpha} f_{\theta\kappa}\,\partial^{\kappa} f_{\alpha}{}^{\theta} - \\
&\tfrac{2}{3} t_1\,\partial^{\alpha} f_{\kappa\theta}\,\partial^{\kappa} f_{\alpha}{}^{\theta} - \tfrac{1}{3} t_1\,\partial^{\alpha} f^{\lambda}{}_{\kappa}\,\partial^{\kappa} f_{\alpha\lambda} + t_1\,\omega_{\kappa\alpha}{}^{\alpha}\,\partial^{\kappa} f^{\iota}{}_{\iota} + t_1\,\omega_{\kappa\lambda}{}^{\lambda}\,\partial^{\kappa} f^{\iota}{}_{\iota} + \\
&2\,t_1\,\partial^{\alpha} f_{\kappa\alpha}\,\partial^{\kappa} f^{\iota}{}_{\iota} - t_1\,\partial_{\kappa} f^{\lambda}{}_{\lambda}\,\partial^{\kappa} f^{\iota}{}_{\iota} + \tfrac{1}{3} t_1\,\omega_{\iota\theta\kappa}\,\partial^{\kappa} f^{\iota\theta} + \tfrac{4}{3} t_1\,\omega_{\iota\kappa\theta}\,\partial^{\kappa} f^{\iota\theta} - \\
&\tfrac{1}{3} t_1\,\omega_{\theta\iota\kappa}\,\partial^{\kappa} f^{\iota\theta} + \tfrac{2}{3} t_1\,\omega_{\theta\kappa\iota}\,\partial^{\kappa} f^{\iota\theta} - t_1\,\omega_{\iota\alpha}{}^{\alpha}\,\partial^{\kappa} f^{\iota}{}_{\kappa} - t_1\,\omega_{\iota\lambda}{}^{\lambda}\,\partial^{\kappa} f^{\iota}{}_{\kappa} + \\
&\tfrac{1}{3} t_1\,\partial^{\alpha} f^{\lambda}{}_{\kappa}\,\partial^{\kappa} f_{\lambda\alpha} + \tfrac{1}{3} t_1\,\partial_{\kappa} f_{\theta}{}^{\lambda}\,\partial^{\kappa} f_{\lambda}{}^{\theta} + \tfrac{2}{3} t_1\,\partial_{\kappa} f^{\lambda}{}_{\theta}\,\partial^{\kappa} f_{\lambda}{}^{\theta} - \\
&t_1\,\partial^{\alpha} f^{\lambda}{}_{\alpha}\,\partial^{\kappa} f_{\lambda\kappa} + r_5\,\partial_{\alpha}\omega_{\lambda}{}^{\alpha}{}_{\theta}\,\partial^{\lambda}\omega^{\theta\kappa}{}_{\kappa} - r_5\,\partial_{\theta}\omega_{\lambda}{}^{\alpha}{}_{\alpha}\,\partial^{\lambda}\omega^{\theta\kappa}{}_{\kappa}
\end{aligned}
$$

Added source term: $f^{\alpha\beta}\,\tau_{\alpha\beta} + \omega^{\alpha\beta\chi}\,\sigma_{\alpha\beta\chi}$

Source constraints	#
$\sigma_{0^-}^{\#1} == 0$	1
$\tau_{0^+}^{\#2} == 0$	1
$\tau_{0^+}^{\#1} - 2 i k\,\sigma_{0^+}^{\#1} == 0$	1
$\tau_{1^-}^{\#2\alpha} + 2 i k\,\sigma_{1^-}^{\#2\alpha} == 0$	3
$\tau_{1^-}^{\#1\alpha} == 0$	3
$\tau_{1^+}^{\#1\alpha\beta} + i k\,\sigma_{1^+}^{\#2\alpha\beta} == 0$	3
$\tau_{2^+}^{\#1\alpha\beta} - 2 i k\,\sigma_{2^+}^{\#1\alpha\beta} == 0$	5
Total #:	17

Unitarity conditions: $r_5 > 0$ && $t_1 < 0$ || $t_1 > 0$

(No massive particles)

	$\sigma_{1^+}^{\#1}{}_{\alpha\beta}$	$\sigma_{1^+}^{\#2}{}_{\alpha\beta}$	$\tau_{1^+}^{\#1}{}_{\alpha\beta}$	$\sigma_{1^-}^{\#1}{}_{\alpha}$	$\sigma_{1^-}^{\#2}{}_{\alpha}$	$\tau_{1^-}^{\#1}{}_{\alpha}$	$\tau_{1^-}^{\#2}{}_{\alpha}$
$\sigma_{1^+}^{\#1}{}^{\dagger\alpha\beta}$	$\frac{1}{k^2 r_5}$	$\frac{1}{\sqrt{2}\,(k^2 r_5 + k^4 r_5)}$	$\frac{i}{\sqrt{2}\,(k r_5 + k^3 r_5)}$	0	0	0	0
$\sigma_{1^+}^{\#2}{}^{\dagger\alpha\beta}$	$\frac{1}{\sqrt{2}\,(k^2 r_5 + k^4 r_5)}$	$\frac{6k^2 r_5 + t_1}{2(k+k^3)^2 r_5 t_1}$	$\frac{i(6k^2 r_5 + t_1)}{2k(1+k^2)^2 r_5 t_1}$	0	0	0	0
$\tau_{1^+}^{\#1}{}^{\dagger\alpha\beta}$	$-\frac{i}{\sqrt{2}\,(k r_5 + k^3 r_5)}$	$-\frac{i(6k^2 r_5 + t_1)}{2k(1+k^2)^2 r_5 t_1}$	$\frac{6k^2 r_5 + t_1}{2(1+k^2)^2 r_5 t_1}$	0	0	0	0
$\sigma_{1^-}^{\#1}{}^{\dagger\alpha}$	0	0	0	0	$\frac{\sqrt{2}}{t_1 + 2k^2 t_1}$	0	$\frac{2ik}{t_1 + 2k^2 t_1}$
$\sigma_{1^-}^{\#2}{}^{\dagger\alpha}$	0	0	0	$\frac{\sqrt{2}}{t_1 + 2k^2 t_1}$	$\frac{-2k^2 r_5 + t_1}{(t_1 + 2k^2 t_1)^2}$	0	$-\frac{i\sqrt{2}\,k(2k^2 r_5 - t_1)}{(t_1 + 2k^2 t_1)^2}$
$\tau_{1^-}^{\#1}{}^{\dagger\alpha}$	0	0	0	0	0	0	0
$\tau_{1^-}^{\#2}{}^{\dagger\alpha}$	0	0	0	$-\frac{2ik}{t_1 + 2k^2 t_1}$	$\frac{i\sqrt{2}\,k(2k^2 r_5 - t_1)}{(t_1 + 2k^2 t_1)^2}$	0	$\frac{-4k^4 r_5 + 2k^2 t_1}{(t_1 + 2k^2 t_1)^2}$

Quadratic pole: $\frac{1}{r_5 t_1^2 \mu^2} > 0$

Pole residue: 2

Polarisations: