	$\sigma_{1^+}^{\#1}{}_{\alpha\beta}$	$\sigma_{1^+}^{\#2}{}_{\alpha\beta}$	$\tau_{1^+}^{\#1}{}_{\alpha\beta}$	$\sigma_{1^-}^{\#1}{}_{\alpha}$	$\sigma_{1^-}^{\#2}{}_{\alpha}$	$\tau_{1^-}^{\#1}{}_{\alpha}$	$\tau_{1^-}^{\#2}{}_{\alpha}$
$\sigma_{1^+}^{\#1}\dagger^{\alpha\beta}$	0	$-\frac{\sqrt{2}}{t_1+k^2 t_1}$	$-\frac{i\sqrt{2}\,k}{t_1+k^2 t_1}$	0	0	0	0
$\sigma_{1^+}^{\#2}\dagger^{\alpha\beta}$	$-\frac{\sqrt{2}}{t_1+k^2 t_1}$	$\frac{-2k^2(2r_3+r_5)+t_1}{(1+k^2)^2 {t_1}^2}$	$\frac{-2ik^3(2r_3+r_5)+ikt_1}{(1+k^2)^2 {t_1}^2}$	0	0	0	0
$\tau_{1^+}^{\#1}\dagger^{\alpha\beta}$	$\frac{i\sqrt{2}\,k}{t_1+k^2 t_1}$	$\frac{i(2k^3(2r_3+r_5)-kt_1)}{(1+k^2)^2 {t_1}^2}$	$\frac{-2k^4(2r_3+r_5)+k^2 t_1}{(1+k^2)^2 {t_1}^2}$	0	0	0	0
$\sigma_{1^-}^{\#1}\dagger^{\alpha}$	0	0	0	$\frac{1}{k^2(2r_3+r_5)}$	$-\frac{1}{\sqrt{2}\,(k^2+2k^4)(2r_3+r_5)}$	0	$-\frac{i}{k(1+2k^2)(2r_3+r_5)}$
$\sigma_{1^-}^{\#2}\dagger^{\alpha}$	0	0	0	$-\frac{1}{\sqrt{2}\,(k^2+2k^4)(2r_3+r_5)}$	$\frac{6k^2(2r_3+r_5)+t_1}{2(k+2k^3)^2(2r_3+r_5)t_1}$	0	$\frac{i(6k^2(2r_3+r_5)+t_1)}{\sqrt{2}\,k(1+2k^2)^2(2r_3+r_5)t_1}$
$\tau_{1^-}^{\#1}\dagger^{\alpha}$	0	0	0	0	0	0	0
$\tau_{1^-}^{\#2}\dagger^{\alpha}$	0	0	0	$\frac{i}{k(1+2k^2)(2r_3+r_5)}$	$-\frac{i(6k^2(2r_3+r_5)+t_1)}{\sqrt{2}\,k(1+2k^2)^2(2r_3+r_5)t_1}$	0	$\frac{6k^2(2r_3+r_5)+t_1}{(1+2k^2)^2(2r_3+r_5)t_1}$

Lagrangian density

$$-\tfrac{1}{3}t_1\,\omega_{}^{\alpha\prime}\,\omega_{\kappa\alpha}^{}{}^{\kappa}-t_1\,\omega_{}^{\kappa\lambda}\,\omega_{\kappa\lambda}^{}{}'-2r_3\partial_\iota\omega^{\kappa\lambda}{}_{\kappa}\partial^\iota\omega_{\lambda}^{}{}_{\alpha}-r_5\partial_\iota\omega^{\kappa\lambda}{}_{\kappa}\partial^\iota\omega_{\lambda}^{}{}_{\alpha}+$$
$$2r_3\partial_\alpha\omega_{\lambda}^{}{}_{\theta}\partial_\kappa\omega^{\theta\lambda}-r_5\partial_\alpha\omega_{\lambda}^{}{}_{\theta}\partial_\kappa\omega^{\theta\lambda}-2r_3\partial_\theta\omega_{\lambda}^{}{}_{\alpha}\partial_\kappa\omega^{\kappa\lambda}{}_{\theta}+$$
$$r_5\partial_\theta\omega_{\lambda}^{}{}_{\alpha}\partial_\kappa\omega^{\theta\lambda}-2r_3\partial_\alpha\omega_{\lambda}^{}{}_{\theta}\partial_\kappa\omega^{\kappa\lambda\theta}-r_5\partial_\alpha\omega_{\lambda}^{}{}_{\theta}\partial_\kappa\omega^{\kappa\lambda\theta}+$$
$$4r_3\partial_\theta\omega_{\lambda}^{}{}_{\alpha}\partial_\kappa\omega^{\kappa\lambda\theta}+2r_5\partial_\theta\omega_{\lambda}^{}{}_{\alpha}\partial_\kappa\omega^{\kappa\lambda\theta}-\tfrac{1}{2}t_1\partial^\alpha f_{\theta\kappa}\partial^\kappa f_{\alpha}^{}{}_{\theta}-$$
$$\tfrac{1}{2}t_1\partial^\alpha f_{\kappa\theta}\partial^\kappa f_{\alpha}^{}{}_{\theta}-\tfrac{1}{2}t_1\partial^\alpha f^{\lambda}{}_{\kappa}\partial^\kappa f_{\alpha\lambda}+\tfrac{1}{3}t_1\,\omega_{\kappa\alpha}^{}{}^{\alpha}\partial^\kappa f_{}^{\prime}{}_{}+\tfrac{1}{3}t_1\,\omega_{\kappa\lambda}^{}{}^{\lambda}\partial^\kappa f_{}^{\prime}{}_{}+$$
$$\tfrac{2}{3}t_1\partial^\alpha f_{\kappa\alpha}\partial^\kappa f_{}^{\prime}{}_{}-\tfrac{1}{3}t_1\partial_\iota f^{\lambda}{}_{\lambda}\partial^\kappa f_{}^{\prime}{}_{}+2t_1\,\omega_{\iota\kappa\theta}\partial^\kappa f^{\prime\iota\theta}-\tfrac{1}{3}t_1\,\omega_{\iota\alpha}^{}{}^{\alpha}\partial^\kappa f^{\prime\iota}{}_{\kappa}-$$
$$\tfrac{1}{3}t_1\,\omega_{\lambda}^{}{}^{\lambda}\partial^\kappa f^{\prime\iota}{}_{\kappa}+\tfrac{1}{2}t_1\partial^\alpha f^{\lambda}{}_{\kappa}\partial^\kappa f_{\lambda\alpha}+\tfrac{1}{2}t_1\partial_\iota f_{\theta}^{}{}^{\lambda}\partial^\kappa f_{\lambda}^{}{}^{\theta}+\tfrac{1}{2}t_1\partial_\iota f^{\lambda}{}_{\theta}\partial^\kappa f_{\lambda}^{}{}^{\theta}-$$
$$\tfrac{1}{3}t_1\partial^\alpha f^{\lambda}{}_{\alpha}\partial^\kappa f_{\lambda\kappa}-4r_3\partial^\beta\omega_{\iota}^{}{}^{\lambda\alpha}\partial_\lambda\omega_{\alpha\beta}^{}{}'-2r_3\partial_\alpha\omega_{\lambda}^{}{}^{\alpha}\partial^\lambda\omega^{\theta\kappa}{}_{\kappa}+$$
$$r_5\partial_\alpha\omega_{\lambda}^{}{}^{\alpha}\partial^\lambda\omega^{\theta\kappa}{}_{\kappa}+2r_3\partial_\theta\omega_{\lambda}^{}{}^{\alpha}\partial^\lambda\omega^{\theta\kappa}{}_{\kappa}-r_5\partial_\theta\omega_{\lambda}^{}{}^{\alpha}\partial^\lambda\omega^{\theta\kappa}{}_{\kappa}$$

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

	$\omega_{1^+}^{\#1}{}_{\alpha\beta}$	$\omega_{1^+}^{\#2}{}_{\alpha\beta}$	$f_{1^+}^{\#1}{}_{\alpha\beta}$	$\omega_{1^-}^{\#1}{}_{\alpha}$	$\omega_{1^-}^{\#2}{}_{\alpha}$	$f_{1^-}^{\#1}{}_{\alpha}$	$f_{1^-}^{\#2}{}_{\alpha}$
$\omega_{1^+}^{\#1}\dagger^{\alpha\beta}$	$k^2(2r_3+r_5)-\frac{t_1}{2}$	$-\frac{t_1}{\sqrt{2}}$	$-\frac{ikt_1}{\sqrt{2}}$	0	0	0	0
$\omega_{1^+}^{\#2}\dagger^{\alpha\beta}$	$-\frac{t_1}{\sqrt{2}}$	0	0	0	0	0	0
$f_{1^+}^{\#1}\dagger^{\alpha\beta}$	$\frac{ikt_1}{\sqrt{2}}$	0	0	0	0	0	0
$\omega_{1^-}^{\#1}\dagger^{\alpha}$	0	0	0	$k^2(2r_3+r_5)+\frac{t_1}{6}$	$\frac{t_1}{3\sqrt{2}}$	$\frac{ikt_1}{3}$	$\frac{2k^2t_1}{3}$
$\omega_{1^-}^{\#2}\dagger^{\alpha}$	0	0	0	$\frac{t_1}{3\sqrt{2}}$	$\frac{t_1}{3}$	$\frac{1}{3}i\sqrt{2}\,kt_1$	0
$f_{1^-}^{\#1}\dagger^{\alpha}$	0	0	0	$\frac{ikt_1}{3}$	$\frac{1}{3}i\sqrt{2}\,kt_1$	0	0
$f_{1^-}^{\#2}\dagger^{\alpha}$	0	0	0	$\frac{2k^2t_1}{3}$	0	0	0

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

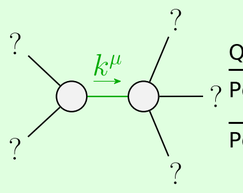
	$\omega_{2^+}^{\#1}{}_{\alpha\beta}$	$f_{2^+}^{\#1}{}_{\alpha\beta}$	$\omega_{2^-}^{\#1}{}_{\alpha\beta\chi}$
$\omega_{2^+}^{\#1}\dagger^{\alpha\beta}$	$\frac{t_1}{2}$	$-\frac{ikt_1}{\sqrt{2}}$	0
$f_{2^+}^{\#1}\dagger^{\alpha\beta}$	$\frac{ikt_1}{\sqrt{2}}$	$k^2 t_1$	0
$\omega_{2^-}^{\#1}\dagger^{\alpha\beta\chi}$	0	0	$\frac{t_1}{2}$

	$\omega_{0^+}^{\#1}{}_{}$	$f_{0^+}^{\#1}{}_{}$	$f_{0^+}^{\#2}{}_{}$	$\omega_{0^-}^{\#1}{}_{}$
$\omega_{0^+}^{\#1}\dagger^{}$	$6k^2 r_3$	0	0	0
$f_{0^+}^{\#1}\dagger^{}$	0	0	0	0
$f_{0^+}^{\#2}\dagger^{}$	0	0	0	0
$\omega_{0^-}^{\#1}\dagger^{}$	0	0	0	$-t_1$

	$\sigma_{0^+}^{\#1}{}_{}$	$\tau_{0^+}^{\#1}{}_{}$	$\tau_{0^+}^{\#2}{}_{}$	$\sigma_{0^-}^{\#1}{}_{}$
$\sigma_{0^+}^{\#1}\dagger^{}$	$\frac{1}{6k^2 r_3}$	0	0	0
$\tau_{0^+}^{\#1}\dagger^{}$	0	0	0	0
$\tau_{0^+}^{\#2}\dagger^{}$	0	0	0	0
$\sigma_{0^-}^{\#1}\dagger^{}$	0	0	0	$-\frac{1}{t_1}$

Source constraints

SO(3) irreps	#
$\tau_{0^+}^{\#2} == 0$	1
$\tau_{0^+}^{\#1} == 0$	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 #:	16



Quadratic pole

Pole residue:	$-\frac{1}{(2r_3+r_5)t_1^2} > 0$
Polarisations:	2

Unitarity conditions

$r_5 < -2\,r_3\;\&\&\;t_1 < 0\,||\,t_1 > 0$

(No massive particles)