Lagrangian density

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

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

Source constraints

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

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

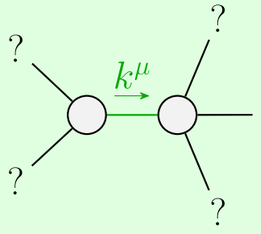
	$\sigma_{0^+}^{\#1}$	$\tau_{0^+}^{\#1}$	$\tau_{0^+}^{\#2}$	$\sigma_{0^-}^{\#1}$
$\sigma_{0^+}^{\#1}\,\dagger$	0	0	0	0
$\tau_{0^+}^{\#1}\,\dagger$	0	0	0	0
$\tau_{0^+}^{\#2}\,\dagger$	0	0	0	0
$\sigma_{0^-}^{\#1}\,\dagger$	0	0	0	$-\frac{1}{t_1}$

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

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

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

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



Quadratic pole

Pole residue:	$-\frac{1}{r_5\,{t_1}^2}>0$
Polarisations:	2

Unitarity conditions

$r_5<0\;\&\&\;t_1<0\,||\,t_1>0$

(No massive particles)