Lagrangian density

$$\frac{2}{3} t_2\ \omega_{\iota}{}^{\kappa\lambda}\ \omega_{\kappa\lambda}{}' + \frac{1}{3} t_2\ \omega_{\kappa\lambda}{}'\ \omega^{\kappa\lambda} - r_5\ \partial_\iota \omega^{\kappa\lambda}\ \partial' \omega_{\lambda}{}^{\alpha} +$$
$$\frac{2}{3} r_2\ \partial^\beta \omega^{\theta\alpha}\ \partial_\theta \omega_{\alpha\beta}{}^{\kappa} - \frac{1}{3} r_2\ \partial_\theta \omega_{\alpha\beta}{}^{\kappa}\ \partial_\kappa \omega^{\alpha\beta\theta} - \frac{2}{3} r_2\ \partial_\theta \omega_{\alpha\beta}{}^{\kappa}\ \partial_\kappa \omega^{\theta\alpha\beta} -$$
$$r_5\ \partial_\alpha \omega_{\lambda\ \theta}{}^{\alpha}\ \partial_\kappa \omega^{\theta\kappa\lambda} + r_5\ \partial_\theta \omega_{\lambda\ \alpha}{}^{\alpha}\ \partial_\kappa \omega^{\kappa\lambda\theta} -$$
$$2\ r_5\ \partial_\theta \omega_{\lambda\ \alpha}{}^{\alpha}\ \partial_\kappa \omega^{\kappa\lambda\theta} + \frac{1}{6} t_2\ \partial^\alpha f_{\theta\kappa}\ \partial^\kappa f_{\alpha}{}^{\theta} - \frac{1}{6} t_2\ \partial^\alpha f_{\kappa\theta}\ \partial^\kappa f_{\alpha}{}^{\theta} +$$
$$\frac{1}{6} t_2\ \partial^\alpha f^{\lambda}{}_{\kappa}\ \partial^\kappa f_{\alpha\lambda} + \frac{1}{3} t_2\ \omega_{\iota\theta\kappa}\ \partial^\kappa f'^{\iota\theta} - \frac{2}{3} t_2\ \omega_{\iota\kappa\theta}\ \partial^\kappa f'^{\iota\theta} - \frac{1}{3} t_2\ \omega_{\theta\iota\kappa}\ \partial^\kappa f'^{\iota\theta} +$$
$$\frac{2}{3} t_2\ \omega_{\theta\kappa\iota}\ \partial^\kappa f'^{\iota\theta} - \frac{1}{6} t_2\ \partial^\alpha f^{\lambda}{}_{\kappa}\ \partial^\kappa f_{\lambda\alpha} - \frac{1}{6} t_2\ \partial_\kappa f^{\lambda}{}_{\theta}\ \partial^\kappa f_{\lambda}{}^{\theta} + \frac{1}{6} t_2\ \partial_\kappa f^{\lambda}{}_{\theta}\ \partial^\kappa f_{\lambda}{}^{\theta} +$$
$$\frac{1}{3} r_2\ \partial_\kappa \omega^{\alpha\beta\theta}\ \partial^\kappa \omega_{\alpha\beta\theta} + \frac{2}{3} r_2\ \partial_\kappa \omega^{\theta\alpha\beta}\ \partial^\kappa \omega_{\alpha\beta\theta} - \frac{2}{3} r_2\ \partial^\beta \omega_{\iota}{}^{\alpha\lambda}\ \partial_\lambda \omega_{\alpha\beta}{}' +$$
$$\frac{2}{3} r_2\ \partial^\beta \omega_{\iota}{}^{\lambda\alpha}\ \partial_\lambda \omega_{\alpha\beta}{}' + r_5\ \partial_\alpha \omega_{\lambda\ \theta}{}^{\alpha}\ \partial^\lambda \omega^{\theta\kappa}{}_{\kappa} - r_5\ \partial_\theta \omega_{\lambda\ \alpha}{}^{\alpha}\ \partial^\lambda \omega^{\theta\kappa}{}_{\kappa}$$

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

	$\sigma_{1^+}^{\#1}{}^{\alpha\beta}$	$\sigma_{1^+}^{\#2}{}^{\alpha\beta}$	$\tau_{1^+}^{\#1}{}^{\alpha\beta}$	$\sigma_{1^-}^{\#1}{}^{\alpha}$	$\sigma_{1^-}^{\#2}{}^{\alpha}$	$\tau_{1^-}^{\#1}{}^{\alpha}$	$\tau_{1^-}^{\#2}{}^{\alpha}$
$\sigma_{1^+}^{\#1}{}^{\dagger\,\alpha\beta}$	$\frac{1}{k^2 r_5}$	$-\frac{\sqrt{2}}{k^2 r_5 + k^4 r_5}$	$-\frac{i\sqrt{2}}{k r_5 + k^3 r_5}$	0	0	0	0
$\sigma_{1^+}^{\#2}{}^{\dagger\,\alpha\beta}$	$-\frac{\sqrt{2}}{k^2 r_5 + k^4 r_5}$	$\frac{3k^2 r_5 + 2t_2}{(k+k^3) r_5 t_2}$	$\frac{i(3k^2 r_5 + 2t_2)}{k(1+k^2)^2 r_5 t_2}$	0	0	0	0
$\tau_{1^+}^{\#1}{}^{\dagger\,\alpha\beta}$	$\frac{i\sqrt{2}}{k r_5 + k^3 r_5}$	$-\frac{i(3k^2 r_5 + 2t_2)}{k(1+k^2)^2 r_5 t_2}$	$\frac{3k^2 r_5 + 2t_2}{(1+k^2)^2 r_5 t_2}$	0	0	0	0
$\sigma_{1^-}^{\#1}{}^{\dagger\,\alpha}$	0	0	0	$\frac{1}{k^2 r_5}$	0	0	0
$\sigma_{1^-}^{\#2}{}^{\dagger\,\alpha}$	0	0	0	0	0	0	0
$\tau_{1^-}^{\#1}{}^{\dagger\,\alpha}$	0	0	0	0	0	0	0
$\tau_{1^-}^{\#2}{}^{\dagger\,\alpha}$	0	0	0	0	0	0	0

	$\omega_{1^+}^{\#1}{}^{\alpha\beta}$	$\omega_{1^+}^{\#2}{}^{\alpha\beta}$	$f_{1^+}^{\#1}{}^{\alpha\beta}$	$\omega_{1^-}^{\#1}{}^{\alpha}$	$\omega_{1^-}^{\#2}{}^{\alpha}$	$f_{1^-}^{\#1}{}^{\alpha}$	$f_{1^-}^{\#2}{}^{\alpha}$
$\omega_{1^+}^{\#1}{}^{\dagger\,\alpha\beta}$	$k^2 r_5 + \frac{2t_2}{3}$	$\frac{\sqrt{2}\, t_2}{3}$	$\frac{1}{3} i \sqrt{2}\, k t_2$	0	0	0	0
$\omega_{1^+}^{\#2}{}^{\dagger\,\alpha\beta}$	$\frac{\sqrt{2}\, t_2}{3}$	$\frac{t_2}{3}$	$\frac{i k t_2}{3}$	0	0	0	0
$f_{1^+}^{\#1}{}^{\dagger\,\alpha\beta}$	$-\frac{1}{3} i \sqrt{2}\, k t_2$	$-\frac{1}{3} i k t_2$	$\frac{k^2 t_2}{3}$	0	0	0	0
$\omega_{1^-}^{\#1}{}^{\dagger\,\alpha}$	0	0	0	$k^2 r_5$	0	0	0
$\omega_{1^-}^{\#2}{}^{\dagger\,\alpha}$	0	0	0	0	0	0	0
$f_{1^-}^{\#1}{}^{\dagger\,\alpha}$	0	0	0	0	0	0	0
$f_{1^-}^{\#2}{}^{\dagger\,\alpha}$	0	0	0	0	0	0	0

Source constraints

SO(3) irreps	#
$\tau_{0^+}^{\#2} == 0$	1
$\tau_{0^+}^{\#1} == 0$	1
$\sigma_{0^+}^{\#1} == 0$	1
$\tau_{1^-}^{\#2\,\alpha} == 0$	3
$\tau_{1^-}^{\#1\,\alpha} == 0$	3
$\sigma_{1^-}^{\#2\,\alpha} == 0$	3
$\tau_{1^+}^{\#1\,\alpha\beta} + i\,k\ \sigma_{1^+}^{\#2\,\alpha\beta} == 0$	3
$\sigma_{2^-}^{\#1\,\alpha\beta\chi} == 0$	5
$\tau_{2^+}^{\#1\,\alpha\beta} == 0$	5
$\sigma_{2^+}^{\#1\,\alpha\beta} == 0$	5
Total #:	30

	$\omega_{2^+}^{\#1}{}^{\alpha\beta}$	$f_{2^+}^{\#1}{}^{\alpha\beta}$	$\omega_{2^-}^{\#1}{}^{\alpha\beta\chi}$
$\omega_{2^+}^{\#1}{}^{\dagger\,\alpha\beta}$	0	0	0
$f_{2^+}^{\#1}{}^{\dagger\,\alpha\beta}$	0	0	0
$\omega_{2^-}^{\#1}{}^{\dagger\,\alpha\beta\chi}$	0	0	0

	$\sigma_{2^+}^{\#1}{}^{\alpha\beta}$	$\tau_{2^+}^{\#1}{}^{\alpha\beta}$	$\sigma_{2^-}^{\#1}{}^{\alpha\beta\chi}$
$\sigma_{2^+}^{\#1}{}^{\dagger\,\alpha\beta}$	0	0	0
$\tau_{2^+}^{\#1}{}^{\dagger\,\alpha\beta}$	0	0	0
$\sigma_{2^-}^{\#1}{}^{\dagger\,\alpha\beta\chi}$	0	0	0

	$\omega_{0^+}^{\#1}$	$f_{0^+}^{\#1}$	$f_{0^+}^{\#2}$	$\omega_{0^-}^{\#1}$
$\omega_{0^+}^{\#1}{}^{\dagger}$	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	$k^2 r_2 + t_2$

	$\sigma_{0^+}^{\#1}$	$\tau_{0^+}^{\#1}$	$\tau_{0^+}^{\#2}$	$\sigma_{0^-}^{\#1}$
$\sigma_{0^+}^{\#1}{}^{\dagger}$	0	0	0	$\frac{1}{k^2 r_2 + t_2}$
$\tau_{0^+}^{\#1}{}^{\dagger}$	0	0	0	0
$\tau_{0^+}^{\#2}{}^{\dagger}$	0	0	0	0
$\sigma_{0^-}^{\#1}{}^{\dagger}$	0	0	0	0

Massive particle

Pole residue:	$-\frac{1}{r_2} > 0$
Polarisations:	1
Square mass:	$-\frac{t_2}{r_2} > 0$
Spin:	0
Parity:	Odd

Unitarity conditions

$r_2 < 0$ && $t_2 > 0$

(No massless particles)