$\sigma_{0^+}^{\#1}\ \dagger$	$\sigma_{0^-}^{\#1}\ \dagger$
0	0
0	0

$\sigma_{2^+}^{\#1}\ \dagger^{\alpha\beta}$	$\sigma_{2^-}^{\#1}\ \dagger^{\alpha\beta\chi}$
$-\frac{2}{3\,k^2\,r_3}$	0
0	0

$\omega_{0^+}^{\#1}\ \dagger$	$\omega_{0^-}^{\#1}\ \dagger$
0	0
0	0

$\omega_{2^+}^{\#1}\ \dagger^{\alpha\beta}$	$\omega_{2^-}^{\#1}\ \dagger^{\alpha\beta\chi}$
$-\frac{3\,k^2\,r_3}{2}$	0
0	0

$\sigma_{1^+}^{\#1}\ \dagger^{\alpha\beta}$	$\sigma_{1^+}^{\#2}\ \dagger^{\alpha\beta}$	$\sigma_{1^-}^{\#1}\ \dagger^{\alpha}$	$\sigma_{1^-}^{\#2}\ \dagger^{\alpha}$
$\frac{1}{k^2\,(2\,r_3+r_5)}$	0	0	0
0	0	0	0
0	0	$\frac{2}{k^2\,(r_3+2\,r_5)}$	0
0	0	0	0

$\omega_{1^+}^{\#1}\ \dagger^{\alpha\beta}$	$\omega_{1^+}^{\#2}\ \dagger^{\alpha\beta}$	$\omega_{1^-}^{\#1}\ \dagger^{\alpha}$	$\omega_{1^-}^{\#2}\ \dagger^{\alpha}$
$k^2\,(2\,r_3+r_5)$	0	0	0
0	0	0	0
0	0	$\frac{1}{2}\,k^2\,(r_3+2\,r_5)$	0
0	0	0	0

Source constraints

SO(3) irreps	#
$\sigma_{0^-}^{\#1} == 0$	1
$\sigma_{0^+}^{\#1} == 0$	1
$\sigma_{1^-}^{\#2\,\alpha} == 0$	3
$\sigma_{1^+}^{\#2\,\alpha\beta} == 0$	3
$\sigma_{2^-}^{\#1\,\alpha\beta\chi} == 0$	5
Total #:	13

(No massive particles)

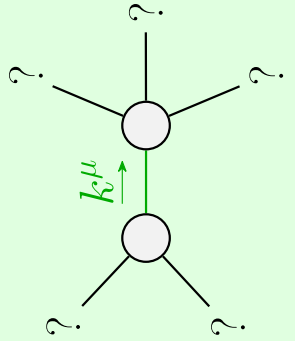
Lagrangian density

$$-\frac{1}{2}\,r_3\,\partial_\iota\omega^{\kappa\lambda}{}_{\kappa}\,\partial^\iota\omega_\lambda{}^\alpha{}_\alpha - r_5\,\partial_\iota\omega^{\kappa\lambda}{}_{\kappa}\,\partial^\iota\omega_\lambda{}^\alpha{}_\alpha + \frac{1}{2}\,r_3\,\partial_\alpha\omega_\lambda{}^\alpha{}_\theta\,\partial_\kappa\omega^{\theta\kappa\lambda} -$$
$$r_5\,\partial_\alpha\omega_\lambda{}^\alpha{}_\theta\,\partial_\kappa\omega^{\theta\kappa\lambda} - \frac{1}{2}\,r_3\,\partial_\theta\omega_\lambda{}^\alpha{}_\alpha\,\partial_\kappa\omega^{\theta\kappa\lambda} + r_5\,\partial_\theta\omega_\lambda{}^\alpha{}_\alpha\,\partial_\kappa\omega^{\theta\kappa\lambda} -$$
$$\frac{1}{2}\,r_3\,\partial_\alpha\omega_\lambda{}^\alpha{}_\theta\,\partial_\kappa\omega^{\kappa\lambda\theta} - r_5\,\partial_\alpha\omega_\lambda{}^\alpha{}_\theta\,\partial_\kappa\omega^{\kappa\lambda\theta} + r_3\,\partial_\theta\omega_\lambda{}^\alpha{}_\alpha\,\partial_\kappa\omega^{\kappa\lambda\theta} +$$
$$2\,r_5\,\partial_\theta\omega_\lambda{}^\alpha{}_\alpha\,\partial_\kappa\omega^{\kappa\lambda\theta} - 4\,r_3\,\partial^\beta\omega_\iota{}^{\lambda\alpha}\,\partial_\lambda\omega_{\alpha\beta}{}^\iota - \frac{1}{2}\,r_3\,\partial_\alpha\omega_\lambda{}^\alpha{}_\theta\,\partial^\lambda\omega^{\theta\kappa}{}_\kappa +$$
$$r_5\,\partial_\alpha\omega_\lambda{}^\alpha{}_\theta\,\partial^\lambda\omega^{\theta\kappa}{}_\kappa + \frac{1}{2}\,r_3\,\partial_\theta\omega_\lambda{}^\alpha{}_\alpha\,\partial^\lambda\omega^{\theta\kappa}{}_\kappa - r_5\,\partial_\theta\omega_\lambda{}^\alpha{}_\alpha\,\partial^\lambda\omega^{\theta\kappa}{}_\kappa$$

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

Quadratic pole

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



Unitarity conditions

$$r_3 < 0\ \&\&\ (r_5 < -\frac{r_3}{2}\ ||\ r_5 > -2\,r_3) \ ||\ r_3 > 0\ \&\&\ -2\,r_3 < r_5 < -\frac{r_3}{2}$$