Lagrangian density

$$-r_5\,\partial_\iota\omega^{\kappa\lambda}{}_\kappa\,\partial^\iota\omega_{\lambda\,\alpha}{}^\alpha - \frac{2}{3}r_1\,\partial^\beta\omega^{\theta\alpha}{}_\kappa\,\partial_\theta\omega_{\alpha\beta}{}^\kappa -$$
$$\frac{2}{3}r_1\,\partial_\theta\omega_{\alpha\beta}{}^\kappa\,\partial_\kappa\omega^{\theta\alpha\beta} + \frac{2}{3}r_1\,\partial_\theta\omega_{\alpha\beta}{}^\kappa\,\partial_\kappa\omega^{\kappa\lambda\theta} - r_5\,\partial_\alpha\omega_{\lambda\,\alpha}{}^\alpha\,\partial_\kappa\omega^{\theta\kappa\lambda} +$$
$$r_5\,\partial_\theta\omega_{\lambda\,\alpha}{}^\alpha\,\partial_\kappa\omega^{\theta\kappa\lambda} - r_5\,\partial_\alpha\omega_{\lambda\,\alpha}{}^\alpha\,\partial_\kappa\omega^{\kappa\lambda\theta} + 2r_5\,\partial_\theta\omega_{\lambda\,\alpha}{}^\alpha\,\partial_\kappa\omega^{\kappa\lambda\theta} +$$
$$\frac{2}{3}r_1\,\partial_\kappa\omega^{\alpha\beta\theta}\,\partial^\kappa\omega_{\alpha\beta\theta} - \frac{2}{3}r_1\,\partial_\kappa\omega^{\theta\alpha\beta}\,\partial^\kappa\omega_{\alpha\beta\theta} + \frac{2}{3}r_1\,\partial^\beta\omega_\iota{}^{\alpha\lambda}\,\partial_\lambda\omega_{\alpha\beta}{}^\iota -$$
$$\frac{8}{3}r_1\,\partial^\beta\omega_\iota{}^{\lambda\alpha}\,\partial_\lambda\omega_{\alpha\beta}{}^\iota + r_5\,\partial_\alpha\omega_{\lambda\,\theta}{}^\alpha\,\partial^\lambda\omega^{\theta\kappa}{}_\kappa - r_5\,\partial_\theta\omega_{\lambda\,\alpha}{}^\alpha\,\partial^\lambda\omega^{\theta\kappa}{}_\kappa$$

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

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

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

	$\omega_{2^+\ \alpha\beta}^{\#1}$	$\omega_{2^-\ \alpha\beta\chi}^{\#1}$
$\omega_{2^+}^{\#1}\dagger^{\alpha\beta}$	0	0
$\omega_{2^-}^{\#1}\dagger^{\alpha\beta\chi}$	0	$k^2\,r_1$

	$\sigma_{1^+\ \alpha\beta}^{\#1}$	$\sigma_{1^+\ \alpha\beta}^{\#2}$	$\sigma_{1^-\ \alpha}^{\#1}$	$\sigma_{1^-\ \alpha}^{\#2}$
$\sigma_{1^+}^{\#1}\dagger^{\alpha\beta}$	$\dfrac{1}{k^2\,(2\,r_1+r_5)}$	0	0	0
$\sigma_{1^+}^{\#2}\dagger^{\alpha\beta}$	0	0	0	0
$\sigma_{1^-}^{\#1}\dagger^{\alpha}$	0	0	$\dfrac{1}{k^2\,(r_1+r_5)}$	0
$\sigma_{1^-}^{\#2}\dagger^{\alpha}$	0	0	0	0

	$\sigma_{2^+\ \alpha\beta}^{\#1}$	$\sigma_{2^-\ \alpha\beta\chi}^{\#1}$
$\sigma_{2^+}^{\#1}\dagger^{\alpha\beta}$	0	0
$\sigma_{2^-}^{\#1}\dagger^{\alpha\beta\chi}$	0	$\dfrac{1}{k^2\,r_1}$

	$\omega_{1^+\ \alpha\beta}^{\#1}$	$\omega_{1^+\ \alpha\beta}^{\#2}$	$\omega_{1^-\ \alpha}^{\#1}$	$\omega_{1^-\ \alpha}^{\#2}$
$\omega_{1^+}^{\#1}\dagger^{\alpha\beta}$	$k^2\,(2\,r_1+r_5)$	0	0	0
$\omega_{1^+}^{\#2}\dagger^{\alpha\beta}$	0	0	0	0
$\omega_{1^-}^{\#1}\dagger^{\alpha}$	0	0	$k^2\,(r_1+r_5)$	0
$\omega_{1^-}^{\#2}\dagger^{\alpha}$	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
$\sigma_{2^+}^{\#1\ \alpha\beta} == 0$	5
Total #:	13

k^μ
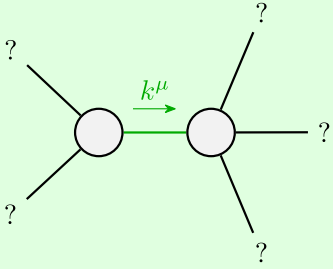
Quadratic pole

Pole residue:	$-\dfrac{1}{r_1\,(r_1+r_5)\,(2\,r_1+r_5)} > 0$
Polarisations:	2

(No massive particles)

Unitarity conditions

$$r_1 < 0\ \&\&\ (r_5 < -r_1\ ||\ r_5 > -2\,r_1)\ ||\ r_1 > 0\ \&\&\ -2\,r_1 < r_5 < -r_1$$