Lagrangian density

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

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

$$r_5\,\partial_\theta\omega_\lambda{}^\alpha{}_\alpha\,\partial_\kappa\omega^{\theta\kappa\lambda} - r_5\,\partial_\alpha\omega_\lambda{}^\alpha{}_\theta\,\partial_\kappa\omega^{\kappa\lambda\theta} + 2\,r_5\,\partial_\theta\omega_\lambda{}^\alpha{}_\alpha\,\partial_\kappa\omega^{\kappa\lambda\theta} +$$

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

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

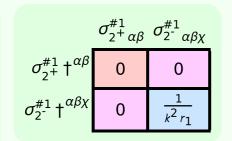Added source term: $\omega^{\alpha\beta\chi}\,\sigma_{\alpha\beta\chi}$

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

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

Source constraints

SO(3) irreps

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

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

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

	$\omega^{\#1}_{0^-}\dagger$	$\omega^{\#1}_{0^+}\dagger$	
	0	0	$\omega^{\#1}_{0^+}$
	0	0	$\omega^{\#1}_{0^-}$

	$\sigma^{\#1}_{0^+}$	$\sigma^{\#1}_{0^-}$
$\sigma^{\#1}_{0^+}\dagger$	0	0
$\sigma^{\#1}_{0^-}\dagger$	0	0

Quadratic pole

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

Unitarity conditions

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

(No massive particles)