Lagrangian density

$$
\begin{aligned}
&-\lambda\,\omega_{\imath\kappa\theta}\,\omega^{\imath\theta\kappa}-\lambda\,\omega^{\imath\theta}{}_{\imath}\,\omega_{\theta}{}^{\kappa}-\lambda\,\omega_{\imath}{}^{\alpha\imath}\,\omega_{\kappa\alpha}{}^{\kappa}-\lambda\,\omega_{\imath}{}^{\kappa\zeta}\,\omega_{\kappa\zeta}{}^{\prime}+f^{\alpha\beta}\,\tau_{\alpha\beta}+\\
&\omega^{\alpha\beta\chi}\,\sigma_{\alpha\beta\chi}-2\,\lambda\,f^{\prime\imath\theta}\,\partial_{\theta}\omega^{\prime\theta}{}_{\imath}+2\,\lambda\,f^{\prime\imath\theta}\,\partial_{\kappa}\omega_{\imath}{}^{\kappa}-2\,\lambda\,f^{\prime}{}_{\imath}\,\partial_{\kappa}\omega^{\imath\kappa}{}_{\theta}-\\
&\frac{1}{2}\,\lambda\,\partial^{\alpha}f_{\theta\kappa}\,\partial^{\kappa}f_{\alpha}{}^{\theta}-\frac{1}{2}\,\lambda\,\partial^{\alpha}f_{\kappa\theta}\,\partial^{\kappa}f_{\alpha}{}^{\theta}-\frac{1}{2}\,\lambda\,\partial^{\alpha}f_{\kappa\alpha}\,\partial^{\kappa}f^{\prime}{}_{\imath}+2\,\lambda\,\partial^{\alpha}f_{\kappa\alpha}\,\partial^{\kappa}f^{\prime}{}_{\imath}-\lambda\,\omega_{\imath\alpha}{}^{\alpha}\,\partial^{\kappa}f^{\prime}{}_{\kappa}-\\
&\lambda\,\omega_{\kappa\zeta}{}^{\zeta}\,\partial^{\kappa}f^{\prime}{}_{\imath}+2\,\lambda\,\partial^{\alpha}f_{\kappa\alpha}\,\partial^{\kappa}f^{\prime}{}_{\imath}-\lambda\,\omega_{\imath\kappa\theta}\,\partial^{\kappa}f^{\prime\theta}-\lambda\,\omega_{\imath\alpha}{}^{\alpha}\,\partial^{\kappa}f^{\prime}{}_{\kappa}-\\
&\lambda\,\omega_{\imath\zeta}{}^{\zeta}\,\partial^{\kappa}f^{\prime}{}_{\kappa}+\frac{1}{2}\,\lambda\,\partial^{\alpha}f^{\zeta}{}_{\kappa}\,\partial^{\kappa}f_{\zeta\alpha}+\frac{1}{2}\,\lambda\,\partial_{\kappa}f^{\zeta}{}_{\theta}\,\partial^{\kappa}f_{\zeta}{}^{\theta}+\frac{1}{2}\,\lambda\,\partial_{\kappa}f^{\zeta}{}_{\theta}\,\partial^{\kappa}f_{\zeta}{}^{\theta}-\lambda\,\partial^{\alpha}f^{\zeta}{}_{\alpha}\,\partial^{\kappa}f_{\zeta\kappa}
\end{aligned}
$$

Source constraints

SO(3) irreps	#
$\sigma_{0^-}^{\#1} == 0$	1
$\tau_{0^+}^{\#2} == 0$	1
$\sigma_{0^+}^{\#1} == 0$	1
$\tau_{1^-}^{\#2\,\alpha} == 0$	3
$\tau_{1^-}^{\#1\,\alpha} == 0$	3
$\sigma_{1^-}^{\#2\,\alpha} == 0$	3
$\sigma_{1^-}^{\#1\,\alpha} == 0$	3
$\tau_{1^+}^{\#1\,\alpha\beta} == 0$	3
$\sigma_{1^+}^{\#2\,\alpha\beta} == 0$	3
$\sigma_{1^+}^{\#1\,\alpha\beta} == 0$	3
$\sigma_{2^-}^{\#1\,\alpha\beta\chi} == 0$	5
$\sigma_{2^+}^{\#1\,\alpha\beta} == 0$	5
Total #:	34

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

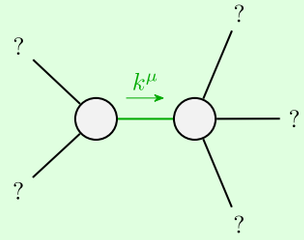
	$\sigma_{0^+}^{\#1}$	$\tau_{0^+}^{\#1}$	$\tau_{0^+}^{\#2}$	$\sigma_{0^-}^{\#1}$
$\sigma_{0^+}^{\#1}\,\dagger$	0	0	0	0
$\tau_{0^+}^{\#1}\,\dagger$	0	$-\frac{1}{2\,k^2\,\lambda}$	0	0
$\tau_{0^+}^{\#2}\,\dagger$	0	0	0	0
$\sigma_{0^-}^{\#1}\,\dagger$	0	0	0	0

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

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

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

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



Quadratic pole

Pole residue:	$\frac{1}{\lambda} > 0$
Polarisations:	2

Unitarity conditions

$\lambda > 0$

(No massive particles)