Lagrangian density

$$-\frac{1}{2}\,\alpha_0\,\omega_{\alpha\zeta\beta}\,\omega^{\alpha\beta\zeta}-\frac{1}{2}\,\alpha_0\,\omega^{\alpha\beta}{}_{\alpha}\,\omega_{\beta}{}^{\zeta}{}_{\zeta}+f^{\alpha\beta}\,\tau_{\alpha\beta}+\omega^{\alpha\beta\chi}\,\sigma_{\alpha\beta\chi}-$$
$$\alpha_0\,f^{\alpha\beta}\,\partial_{\beta}\omega_{\alpha}{}^{\zeta}{}_{\zeta}+\alpha_0\,\partial_{\beta}\omega^{\alpha\beta}{}_{\alpha}+\alpha_0\,f^{\alpha\beta}\,\partial_{\zeta}\omega_{\alpha}{}^{\zeta}{}_{\beta}-\alpha_0\,f^{\alpha}{}_{\alpha}\,\partial_{\zeta}\omega^{\beta\zeta}{}_{\beta}$$

	$\sigma^{\#1}_{2^+\,\alpha\beta}$	$\tau^{\#1}_{2^+\,\alpha\beta}$	$\sigma^{\#1}_{2^-\,\alpha\beta\chi}$
$\sigma^{\#1}_{2^+}{}^{\dagger\,\alpha\beta}$	0	$\frac{2\,i\,\sqrt{2}}{\alpha_0\,k}$	0
$\tau^{\#1}_{2^+}{}^{\dagger\,\alpha\beta}$	$-\frac{2\,i\,\sqrt{2}}{\alpha_0\,k}$	$\frac{2}{\alpha_0\,k^2}$	0
$\sigma^{\#1}_{2^-}{}^{\dagger\,\alpha\beta\chi}$	0	0	$-\frac{4}{\alpha_0}$

	$\omega^{\#1}_{0^+\,}$	$f^{\#1}_{0^+\,}$	$f^{\#2}_{0^+\,}$	$\omega^{\#1}_{0^-\,}$
$\omega^{\#1}_{0^+}{}^{\dagger}$	$\frac{\alpha_0}{2}$	$-\frac{i\,\alpha_0\,k}{\sqrt{2}}$	0	0
$f^{\#1}_{0^+}{}^{\dagger}$	$\frac{i\,\alpha_0\,k}{\sqrt{2}}$	0	0	0
$f^{\#2}_{0^+}{}^{\dagger}$	0	0	0	0
$\omega^{\#1}_{0^-}{}^{\dagger}$	0	0	0	$\frac{\alpha_0}{2}$

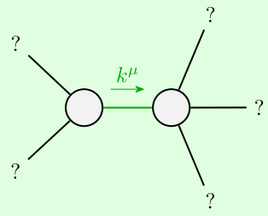
	$\omega^{\#1}_{2^+\,\alpha\beta}$	$f^{\#1}_{2^+\,\alpha\beta}$	$\omega^{\#1}_{2^-\,\alpha\beta\chi}$
$\omega^{\#1}_{2^+}{}^{\dagger\,\alpha\beta}$	$-\frac{\alpha_0}{4}$	$\frac{i\,\alpha_0\,k}{2\,\sqrt{2}}$	0
$f^{\#1}_{2^+}{}^{\dagger\,\alpha\beta}$	$-\frac{i\,\alpha_0\,k}{2\,\sqrt{2}}$	0	0
$\omega^{\#1}_{2^-}{}^{\dagger\,\alpha\beta\chi}$	0	0	$-\frac{\alpha_0}{4}$

	$\sigma^{\#1}_{0^+}$	$\tau^{\#1}_{0^+}$	$\tau^{\#2}_{0^+}$	$\sigma^{\#1}_{0^-}$
$\sigma^{\#1}_{0^+}{}^{\dagger}$	0	$-\frac{i\,\sqrt{2}}{\alpha_0\,k}$	0	0
$\tau^{\#1}_{0^+}{}^{\dagger}$	$\frac{i\,\sqrt{2}}{\alpha_0\,k}$	$-\frac{1}{\alpha_0\,k^2}$	0	0
$\tau^{\#2}_{0^+}{}^{\dagger}$	0	0	0	0
$\sigma^{\#1}_{0^-}{}^{\dagger}$	0	0	0	$\frac{2}{\alpha_0}$

Source constraints	#
SO(3) irreps	
$\tau^{\#2}_{0^+}==0$	1
$\tau^{\#2\,\alpha}_{1^-}+2\,i\,k\,\sigma^{\#2\,\alpha}_{1^-}==0$	3
$\tau^{\#1\,\alpha}_{1^-}==0$	3
$\tau^{\#1\,\alpha\beta}_{1^+}+i\,k\,\sigma^{\#2\,\alpha\beta}_{1^+}==0$	3
Total #:	10

	$\sigma^{\#1}_{1^+\,\alpha\beta}$	$\sigma^{\#2}_{1^+\,\alpha\beta}$	$\tau^{\#1}_{1^+\,\alpha\beta}$	$\sigma^{\#1}_{1^-\,\alpha}$	$\sigma^{\#2}_{1^-\,\alpha}$	$\tau^{\#1}_{1^-\,\alpha}$	$\tau^{\#2}_{1^-\,\alpha}$
$\sigma^{\#1}_{1^+}{}^{\dagger\,\alpha\beta}$	0	$\frac{2\,\sqrt{2}}{\alpha_0+2\,\alpha_0\,k^2}$	$\frac{2\,i\,\sqrt{2}\,k}{\alpha_0+\alpha_0\,k^2}$	0	$-\frac{2\,\sqrt{2}}{\alpha_0+2\,\alpha_0\,k^2}$	0	$-\frac{4\,i\,k}{\alpha_0+2\,\alpha_0\,k^2}$
$\sigma^{\#2}_{1^+}{}^{\dagger\,\alpha\beta}$	$\frac{2\,\sqrt{2}}{\alpha_0+\alpha_0\,k^2}$	$-\frac{2}{\alpha_0\,(1+k^2)^2}$	$-\frac{2\,i\,k}{\alpha_0\,(1+k^2)^2}$	0	$-\frac{2}{\alpha_0\,(1+k^2)^2}$	0	$-\frac{2\,i\,\sqrt{2}\,k}{\alpha_0\,(1+k^2)^2}$
$\tau^{\#1}_{1^+}{}^{\dagger\,\alpha\beta}$	$\frac{2\,i\,\sqrt{2}\,k}{\alpha_0+\alpha_0\,k^2}$	$-\frac{2\,i\,k}{\alpha_0\,(1+k^2)^2}$	$-\frac{2\,k^2}{\alpha_0\,(1+k^2)^2}$	0	0	0	$-\frac{4\,k^2}{\alpha_0\,(1+2\,k^2)^2}$
$\sigma^{\#1}_{1^-}{}^{\dagger\,\alpha}$	0	0	0	0	0	0	0
$\sigma^{\#2}_{1^-}{}^{\dagger\,\alpha}$	0	0	0	0	0	0	0
$\tau^{\#1}_{1^-}{}^{\dagger\,\alpha}$	0	0	0	0	0	0	0
$\tau^{\#2}_{1^-}{}^{\dagger\,\alpha}$	0	0	0	0	0	0	0

	$\omega^{\#1}_{1^+\,\alpha\beta}$	$\omega^{\#2}_{1^+\,\alpha\beta}$	$f^{\#1}_{1^+\,\alpha\beta}$	$\omega^{\#1}_{1^-\,\alpha}$	$\omega^{\#2}_{1^-\,\alpha}$	$f^{\#1}_{1^-\,\alpha}$	$f^{\#2}_{1^-\,\alpha}$
$\omega^{\#1}_{1^+}{}^{\dagger\,\alpha\beta}$	$\frac{\alpha_0}{4}$	$\frac{\alpha_0}{2\,\sqrt{2}}$	$-\frac{i\,\alpha_0\,k}{2\,\sqrt{2}}$	$\frac{\alpha_0}{4}$	$-\frac{\alpha_0}{2\,\sqrt{2}}$	$-\frac{1}{2}\,i\,\alpha_0\,k$	0
$\omega^{\#2}_{1^+}{}^{\dagger\,\alpha\beta}$	$\frac{\alpha_0}{2\,\sqrt{2}}$	0	0	$\frac{\alpha_0}{2\,\sqrt{2}}$	0	0	0
$f^{\#1}_{1^+}{}^{\dagger\,\alpha\beta}$	$-\frac{i\,\alpha_0\,k}{2\,\sqrt{2}}$	0	0	$-\frac{i\,\alpha_0\,k}{2\,\sqrt{2}}$	0	0	0
$\omega^{\#1}_{1^-}{}^{\dagger\,\alpha}$	0	0	0	0	0	$\frac{i\,\alpha_0\,k}{2}$	0
$\omega^{\#2}_{1^-}{}^{\dagger\,\alpha}$	0	0	0	0	0	0	0
$f^{\#1}_{1^-}{}^{\dagger\,\alpha}$	0	0	0	$\frac{i\,\alpha_0\,k}{2}$	0	0	0
$f^{\#2}_{1^-}{}^{\dagger\,\alpha}$	0	0	0	0	0	0	0



Quadratic pole

Pole residue:	$\frac{1}{\alpha_0} > 0$
Polarisations:	2

Unitarity conditions

$\alpha_0 > 0$

(No massive particles)