Lagrangian density

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

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

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

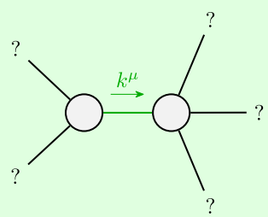
	$\omega_{0^+}^{\#1}$	$f_{0^+}^{\#1}$	$f_{0^+}^{\#2}$	$\omega_{0^-}^{\#1}$
$\omega_{0^+}^{\#1}{}^{\dagger}$	$\frac{\alpha_0}{2}$	$-\frac{i\,\alpha_0\,k}{\sqrt{2}}$	0	0
$f_{0^+}^{\#1}{}^{\dagger}$	$\frac{i\,\alpha_0\,k}{\sqrt{2}}$	0	0	0
$f_{0^+}^{\#2}{}^{\dagger}$	0	0	0	0
$\omega_{0^-}^{\#1}{}^{\dagger}$	0	0	0	$\frac{\alpha_0}{2}$

	$\sigma_{0^+}^{\#1}$	$\tau_{0^+}^{\#1}$	$\tau_{0^+}^{\#2}$	$\sigma_{0^-}^{\#1}$
$\sigma_{0^+}^{\#1}{}^{\dagger}$	0	$-\frac{i\,\sqrt{2}}{\alpha_0\,k}$	0	0
$\tau_{0^+}^{\#1}{}^{\dagger}$	$\frac{i\,\sqrt{2}}{\alpha_0\,k}$	$-\frac{1}{\alpha_0\,k^2}$	0	0
$\tau_{0^+}^{\#2}{}^{\dagger}$	0	0	0	0
$\sigma_{0^-}^{\#1}{}^{\dagger}$	0	0	0	$\frac{2}{\alpha_0}$

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

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

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



Quadratic pole

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

(No massive particles)

Unitarity conditions

$\alpha_0 > 0$