Lagrangian density
$-2\beta_1\omega_{\alpha\chi\beta}\omega^{\alpha\beta\chi} - 2\beta_1\omega_{\chi\delta}^{\chi\delta}\omega_{\chi\delta}^{\alpha} - 2\beta_1\omega_{\chi}^{\chi}\partial_\beta f^{\alpha\beta} - 2\beta_1\omega_{\alpha}^{\delta}\partial_\beta f^{\alpha\beta} -$
$4\beta_1f^{\alpha\beta}\partial_\beta\omega_{\alphaX}^{X} + 4\beta_1\partial_\beta\omega^{\alpha\beta}_{\alpha} + \frac{2}{3}\alpha_3\partial^\alpha\omega^{\beta\zeta}_{X}\partial_\beta\omega_{\zeta\alpha}^{X} +$
$2\beta_1\omega_{\betaX}^{X}\partial^\beta f^\alpha_{\alpha} + 2\beta_1\omega_{\beta\delta}^{\delta}\partial^\beta f^\alpha_{\alpha} - 2\beta_1\partial_\beta f^X_{X}\partial^\beta f^\alpha_{\alpha} + 4\beta_1f^{\alpha\beta}\partial_\chi\omega_{\alpha\beta}^{\chi} -$
$4 \beta_1 f^{\alpha}_{\ \alpha} \partial_{\chi} \omega^{\beta \chi}_{\ \beta} - \frac{2}{3} \alpha_3 \partial_{\beta} \omega_{\zeta \alpha}^{\ \chi} \partial_{\chi} \omega^{\beta \zeta \alpha} - \frac{1}{3} \alpha_3 \partial_{\beta} \omega_{\zeta \alpha}^{\ \chi} \partial_{\chi} \omega^{\zeta \alpha \beta} +$
$4\beta_1 \omega_{\alpha\chi\beta} \partial^{\chi} f^{\alpha\beta} + \beta_1 \partial_{\chi} f_{\beta}^{\ \delta} \partial^{\chi} f_{\delta}^{\ \beta} + \beta_1 \partial_{\chi} f^{\delta}_{\ \beta} \partial^{\chi} f_{\delta}^{\ \beta} +$
$\frac{2}{3} \alpha_3  \partial_\chi \omega^{\beta \zeta \alpha}  \partial^\chi \omega_{\zeta \alpha \beta} + \frac{1}{3} \alpha_3  \partial_\chi \omega^{\zeta \alpha \beta}  \partial^\chi \omega_{\zeta \alpha \beta} + 4  \beta_1  \partial^\beta f^\alpha_{\ \alpha}  \partial_\delta f_{\ \beta}^{\ \delta} -$
$2\beta_1\partial_{\beta}f_{\chi}^{\ \beta}\partial_{\delta}f^{\chi\delta} + \tfrac{2}{3}\alpha_3\partial^{\beta}\omega_{\alpha}^{\ \delta\zeta}\partial_{\delta}\omega_{\zeta\beta}^{\ \alpha} - \tfrac{2}{3}\alpha_3\partial^{\beta}\omega_{\alpha}^{\ \zeta\delta}\partial_{\delta}\omega_{\zeta\beta}^{\ \alpha} -$
$\beta_1  \partial^x f_{\zeta}^{\ \beta}  \partial^\zeta f_{\beta\chi} - \beta_1  \partial^x f_{\zeta}^{\ \beta}  \partial^\zeta f_{\chi\beta} + \beta_1  \partial^x f_{\delta\zeta}  \partial^\zeta f^{\delta}_{\ \chi} - \beta_1  \partial^x f_{\zeta\delta}  \partial^\zeta f^{\delta}_{\ \chi}$
Added source term: $\left f^{\alpha\beta}  \tau_{\alpha\beta} + \omega^{\alpha\beta\chi}  \sigma_{\alpha\beta\chi} \right $

traints	#	1	1	m	8	<u>ش</u>	m	м	е	м	2	2	33	
Source constraints	SO(3) irreps	$\tau_0^{#2} == 0$	$\sigma_{0+}^{#1} == 0$	$\tau_{1}^{\#2\alpha} == 0$	$\tau_{1}^{\#1}{}^{\alpha} == 0$	$\sigma_{1^-}^{\#2\alpha} == 0$	$\sigma_{1^-}^{\#_1\alpha} == 0$	$\tau_1^{\#1}\alpha\beta=0$	$\sigma_1^{\#2}\alpha\beta == 0$	$\sigma_{1}^{\#1}\alpha\beta==0$	$\sigma_{2}^{\#1}\alpha\beta=0$	$\sigma_{2}^{\#1}\alpha\beta\chi=0$	Total #:	
ğ		T												
$f_{1}^{#2}$			0	0	0	0	0	0		_#2 1  α	0	0	0	

 $f_1^{\#2} + \alpha$ 

 $f_{1^{\bar{-}}}^{\#1} \dagger^{\alpha}$ 

 $\omega_{1}^{\#2} +^{\alpha}$ 

 $\omega_{1}^{\#1} \uparrow^{\alpha}$ 

					0 1	Ľ	
$ au_{1}^{\#2}$	0	0	0	0	0	0	0
$\tau_{1}^{\#_{1}}\alpha$	0	0	0	0	0	0	0
$\sigma_{1^-}^{\#2}{}_{lpha}$	0	0	0	0	0	0	0
$\sigma_{1^-}^{\#1}{}_{lpha}$	0	0	0	0	0	0	0
$\tau_{1}^{\#1}\!$	0	0	0	0	0	0	0
$\sigma_1^{\#2}{}_+ \alpha eta$	0	0	0	0	0	0	0
$\sigma_1^{\#1}{}_+\alpha\beta$	0	0	0	0	0	0	0
	$+^{\alpha\beta}$	$-\alpha\beta$	$\alpha\beta$	$+^{\alpha}$	$+^{\alpha}$	$+^{\alpha}$	$+^{\alpha}$
	$\sigma_1^{\#1}$ 1	$\sigma_1^{\#2}$ 1	$\tau_1^{\#1}$ $\dagger$	$\sigma_1^{\#1}$ -	$\sigma_{1}^{\#2}$ †	$\tau_{1}^{\#_{1}}$	$\tau_{1}^{\#2}$

	$\omega_{0}^{\#1}$	$f_{0^{+}}^{#1}$	$f_{0+}^{#2}$	$\omega_0^{\#1}$
$\omega_{0^{+}}^{\#1}$ †	0	0	0	0
$f_{0}^{#1}\dagger$	0	$-4 \beta_1 k^2$	0	0
$f_{0^{+}}^{#2}$ †	0	0	0	0
$\omega_{0}^{\#1}$ †	0	0	0	$\alpha_3 k^2$
,				

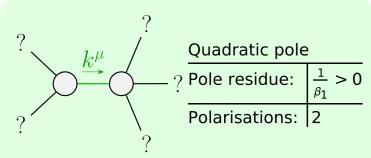
	$\sigma_{2^{+}\alpha\beta}^{\#1}$	$\tau_{2}^{\#1}_{\alpha\beta}$	$\sigma_{2}^{\#1}{}_{\alpha\beta\chi}$
$\sigma_{2}^{\#1}\dagger^{\alpha\beta}$	0	0	0
$\tau_{2}^{\#1} \dagger^{\alpha\beta}$	0	$\frac{1}{2\beta_1 k^2}$	0
$\sigma_2^{\#1} \dagger^{\alpha\beta\chi}$	0	0	0

$f_2^{\#}$	$^{1}_{+}$ † $^{\alpha l}$	0	)	$2 \beta_1 k^2$	
$\omega_2^{#1}$	$\dagger^{\alpha\beta}$	0	)	0	
$\sigma_{0}^{\#1}$	0	0	0	$\frac{1}{\alpha_3  k^2}$	
$\tau_0^{\#2}$	0	0	0	0	
$\tau_0^{\#1}$	0	$-\frac{1}{4\beta_1k^2}$	0	0	
# <sub>1</sub>					

 $\sigma_{0}^{#1} + \Gamma_{0}^{#1} + \Gamma_{0}^{#1} + \Gamma_{0}^{#2} + \Gamma_{0}^{*2} + \Gamma_{$ 

 $\omega_{2^+}^{\#1}\dagger^{\alpha\beta}$ 

 $\omega_{2^{+}\alpha\beta}^{\#1} f_{2^{+}\alpha\beta}^{\#1} \omega_{2^{-}\alpha\beta\chi}^{\#1}$ 



Unitarity conditions

 $\omega_1^{\#1} +^{\alpha\beta}$ 

 $\omega_1^{\#_+^2} +^{\alpha\beta}$ 

 $f_1^{\#1} +^{\alpha\beta}$ 

(No massive particles)