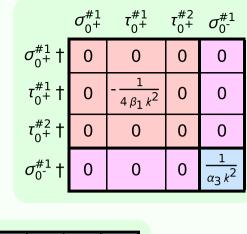
Lagrangian density

$2\beta_1 \ \omega_{\alpha\chi\beta} \ \omega^{\alpha\beta\chi} - 2\beta_1 \ \omega_{\chi\delta}^{\ \chi\delta} \ \omega_{\chi\delta}^{\ \alpha} + f^{\alpha\beta} \ \tau_{\alpha\beta} + \omega^{\alpha\beta\chi} \ \sigma_{\alpha\beta\chi} - 2\beta_1 \ \omega_{\chi}^{\ \chi} \ \partial_{\beta} f^{\alpha\beta} -$	$\beta_1 \omega_{\alpha}^{ \delta} \partial_{\beta} f^{\alpha\beta} - 4 \beta_1 f^{\alpha\beta} \partial_{\beta} \omega_{\alpha}^{ \chi} + 4 \beta_1 \partial_{\beta} \omega^{\alpha\beta}_{ \alpha} + \tfrac{2}{3} \alpha_3 \partial^{\alpha} \omega^{\beta\zeta}_{ \chi} \partial_{\beta} \omega_{\zeta\alpha}^{ \chi} +$	$\beta_1 \; \omega_{\beta \; X}^{\; X} \; \partial^{\beta} f^{\alpha}_{\; \alpha} + 2 \; \beta_1 \; \omega_{\beta \; \delta}^{\; \delta} \; \partial^{\beta} f^{\alpha}_{\; \alpha} - 2 \; \beta_1 \; \partial_{\beta} f^{X}_{\; \; X} \; \partial^{\beta} f^{\alpha}_{\; \; \alpha} + 4 \; \beta_1 \; f^{\alpha\beta} \; \partial_{\chi} \omega_{\alpha \; \beta}^{\; \; X} -$	$\beta_1 f^{\alpha}_{\ \alpha} \partial_{\chi} \omega^{\beta \chi}_{\ \beta} - \frac{2}{3} \alpha_3 \partial_{\beta} \omega_{\zeta \alpha}^{\ \chi} \partial_{\chi} \omega^{\beta \zeta \alpha} - \frac{1}{3} \alpha_3 \partial_{\beta} \omega_{\zeta \alpha}^{\ \chi} \partial_{\chi} \omega^{\zeta \alpha \beta} + 4 \beta_1 \omega_{\alpha \chi \beta} \partial^{\chi} f^{\alpha \beta} +$	$_{1}\partial_{\chi}f_{\beta}^{\delta}\partial^{\chi}f_{\beta}^{\beta}+\beta_{1}\partial_{\chi}f^{\delta}_{\beta}\partial^{\chi}f_{\beta}^{\beta}+\frac{2}{3}\alpha_{3}\partial_{\chi}\omega^{\beta\zeta\alpha}\partial^{\chi}\omega_{\zeta\alpha\beta}^{\beta}+\frac{1}{3}\alpha_{3}\partial_{\chi}\omega^{\zeta\alpha\beta}\partial^{\chi}\omega_{\zeta\alpha\beta}^{\beta}+$	$\beta_1 \partial^\beta f^\alpha_{\ \alpha} \partial_\delta f_\beta^{\ \delta} - 2 \beta_1 \partial_\beta f_\lambda^{\ \beta} \partial_\delta f^{\chi\delta} + \tfrac{2}{3} \alpha_3 \partial^\beta \omega_\alpha^{\ \delta\zeta} \partial_\delta \omega_{\zeta\beta}^{\ \alpha} - \tfrac{2}{3} \alpha_3 \partial^\beta \omega_\alpha^{\ \zeta\delta} \partial_\delta \omega_{\zeta\beta}^{\ \alpha} -$	$_{1}$ $^{\partial X}f_{\zeta}^{\ \beta}$ $^{\partial \zeta}f_{eta\chi}$ - β_{1} $^{\partial X}f_{\zeta}^{\ \beta}$ $^{\partial \zeta}f_{\chi\beta}$ + β_{1} $^{\partial X}f_{\delta\zeta}$ $^{\partial \zeta}f^{\delta}_{\ \chi}$ - β_{1} $^{\partial X}f_{\zeta\delta}$ $^{\partial \zeta}f^{\delta}_{\chi}$
$eta_1~\omega_{lpha\chieta}~\omega^{lphaeta\chi}$	$3_1 \omega_{\alpha}^{\ \delta} \delta_{\beta} f^{\alpha\beta}$	$3_1 \omega_{\beta \ \chi}^{\chi} \partial^{\beta} f^{\alpha}$	$\beta_1 f^{\alpha}_{\ \alpha} \partial_{\chi} \omega^{\beta \chi}_{\ \beta}$	$\partial_{\chi} f_{\beta}^{\ \delta} \partial^{\chi} f_{\delta}^{\ \beta} +$	$3_1 \partial^{\beta} f^{\alpha}_{\ \alpha} \partial_{\delta} f^{\delta}_{\ \beta}$	$\partial^{\chi} f_{\zeta}^{\ \beta} \partial^{\zeta} f_{\beta\chi} - \beta$

raints #	1	1	м	ю	е	е	3	ю	3	2	5	33
SO(3) irreps #	$t_0^{#2} == 0$	$\sigma_{0}^{\#1} == 0$	$\tau_{1}^{\#2\alpha} == 0$	$\tau_{1}^{\#1}{}^{\alpha} == 0$	$\sigma_{1}^{\#2\alpha} == 0$	$\sigma_{1}^{\#1}\alpha == 0$	$\tau_{1}^{\#1}\alpha\beta==0$	$\sigma_{1}^{\#2}\alpha\beta == 0$	$\sigma_{1}^{\#1}\alpha\beta == 0$	$\sigma_{2^+}^{\#1\alpha\beta} == 0$	$\sigma_{2}^{\#1}\alpha\beta\chi==0$	Total #:

 $\omega_{1^-}^{\#1}{}_{\alpha}\;\omega_{1^-}^{\#2}{}_{\alpha}\;f_{1^-}^{\#1}{}_{\alpha}$

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



$r_{2}^{\#1}$ $\alpha_{2}^{\#1}$ $\alpha_{2}^{\#1}$ $\alpha_{2}^{\#1}$	0	0	0
$\tau_{2}^{\#1}_{\alpha\beta}$	0	$\frac{1}{2\beta_1k^2}$	0
0	0	0	0
	$\sigma_{2}^{\#1} + ^{lphaeta}$	$\tau_{2}^{\#1} + ^{\alpha\beta}$	$\sigma_{2}^{\#1} +^{lphaeta\chi}$

$\tau_{1}^{\#2}{}_{\alpha}$	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
$\sigma_{1^{\bar{-}}\alpha}^{\#1}$	0	0	0	0	0	0	0
$\tau_{1}^{\#1}\!$	0	0	0	0	0	0	0
$\sigma_{1}^{\#2}{}_{\alpha\beta}$	0	0	0	0	0	0	0
$\sigma_{1}^{\#1}{}_{\alpha\beta}$	0	0	0	0	0	0	0
	$^{\dagger 1}$ $^{\dagger \alpha \beta}$	$\sigma_1^{\#2} + \alpha \beta$	$\tau_1^{\#1} + \alpha \beta$	$\sigma_{1^{\bar{-}}}^{\#1} +^{\alpha}$	$\sigma_{1}^{\#2} +^{lpha}$	$\tau_{1}^{\#1} +^{\alpha}$	$\tau_{1}^{\#2} + \alpha$
	$\sigma_{1}^{\#}$	$_{1}^{\sharp \rho }$	1	G	G	~	~

	$\omega_{2^{+}\alpha\beta}^{\#1}$	$f_{2^{+}\alpha\beta}^{\#1}$	$\omega_{2}^{\#1}{}_{\alpha\beta\chi}$
$\omega_{2}^{\sharp 1} \dagger^{lpha eta}$	0	0	0
$f_{2+}^{#1} \dagger^{\alpha\beta}$	0	$2 \beta_1 k^2$	0
$\omega_{2}^{\#1}\dagger^{lphaeta\chi}$	0	0	0

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

?		
?	Quadratic pole	<u> </u>
	Pole residue:	$\frac{1}{\beta_1} > 0$
?	Polarisations:	2
?		

(No massive particles)