


$$\alpha_0 > 0 \ \&\& \ \alpha_6 > 0 \ \&\& \ \beta_1 < 0 \ || \ \beta_1 > \frac{\alpha_0}{4}$$

	$\omega_{2^+}^{\#1} \alpha \beta$	$f_{2^+}^{\#1} \alpha \beta$	$\omega_{2^-}^{\#1} \alpha \beta \chi$
$\omega_{2^+}^{\#1} \dagger \alpha \beta$	$-\frac{\alpha_0}{4} + \beta_1$	$\frac{i(\alpha_0 - 4\beta_1)k}{2\sqrt{2}}$	0
$f_{2^+}^{\#1} \dagger \alpha \beta$	$-\frac{i(\alpha_0 - 4\beta_1)k}{2\sqrt{2}}$	$2\beta_1 k^2$	0
$\omega_{2^-}^{\#1} \dagger \alpha \beta \chi$	0	0	$-\frac{\alpha_0}{4} + \beta_1$

	$\sigma_{2^+ \alpha \beta}$	$\tau_{2^+ \alpha \beta}$	$\sigma_{2^- \alpha \beta \chi}$
$\sigma_{2^+}^{\#1} \uparrow \alpha \beta$	$-\frac{16 \beta_1}{\alpha_0^2 - 4 \alpha_0 \beta_1}$	$\frac{2 i \sqrt{2}}{\alpha_0 k}$	0
$\tau_{2^+}^{\#1} \uparrow \alpha \beta$	$-\frac{2 i \sqrt{2}}{\alpha_0 k}$	$\frac{2}{\alpha_0 k^2}$	0
$\sigma_{2^-}^{\#1} \uparrow \alpha \beta \chi$	0	0	$\frac{1}{-\frac{\alpha_0}{4} + \beta_1}$

$\omega_0^{\#1} +$	$\frac{\alpha_0}{2} - 2\beta_1 + \alpha_6 k^2$	$-\frac{i(\alpha_0 - 4\beta_1)k}{\sqrt{2}}$	$f_0^{\#2}$	$\omega_0^{\#1}$
$f_0^{\#1} +$	$\frac{i(\alpha_0 - 4\beta_1)k}{\sqrt{2}}$	$-4\beta_1 k^2$	0	0
$f_0^{\#2} +$	0	0	0	0
$\omega_0^{\#1} +$	0	0	0	$\frac{1}{2}(\alpha_0 - 4\beta_1)$

Lagrangian density	$ \begin{aligned} & -\frac{1}{2} \alpha_0 \omega_{\alpha\beta} \omega^{\alpha\beta} - \frac{1}{2} \alpha_0 \omega^{\alpha\beta} \omega^{\chi}_{\alpha} \omega^{\chi}_{\beta} + 2 \beta_1 \omega^{\alpha\beta} \omega^{\chi}_{\alpha} \omega^{\chi}_{\beta} - \\ & 2 \beta_1 \omega^{\chi\delta}_{\alpha} \omega^{\alpha}_{\chi\delta} - 2 \beta_1 \omega^{\chi}_{\alpha\chi} \partial_{\beta} f^{\alpha\beta} - 2 \beta_1 \omega^{\delta}_{\alpha\delta} \partial_{\beta} f^{\alpha\beta} - \\ & \alpha_0 f^{\alpha\beta} \partial_{\beta} \omega^{\chi}_{\alpha\chi} + \alpha_0 \partial_{\beta} \omega^{\alpha\beta}_{\alpha} + 2 \beta_1 \omega^{\chi}_{\beta\chi} \partial^{\beta} f^{\alpha}_{\alpha} + 2 \beta_1 \omega^{\delta}_{\beta\delta} \partial^{\beta} f^{\alpha}_{\alpha} - \\ & 2 \beta_1 \partial_{\beta} f^{\chi}_{\alpha} \partial^{\beta} f^{\alpha}_{\chi} + \alpha_0 f^{\alpha\beta} \partial_{\chi} \omega^{\chi}_{\alpha\beta} - \alpha_0 f^{\alpha}_{\alpha} \partial_{\chi} \omega^{\beta\chi}_{\beta} + \\ & 4 \beta_1 \omega_{\alpha\beta} \partial^{\chi} f^{\alpha\beta}_{\chi} + \beta_1 \partial_{\chi} f^{\delta}_{\delta} \partial^{\chi} f^{\beta}_{\beta} + \beta_1 \partial_{\chi} f^{\delta}_{\beta} \partial^{\chi} f^{\beta}_{\delta} + \\ & 4 \beta_1 \partial^{\beta} f^{\alpha}_{\alpha} \partial_{\delta} f^{\delta}_{\beta} - 2 \beta_1 \partial_{\beta} f^{\beta}_{\chi} \partial_{\delta} f^{\chi\delta}_{\alpha} + \frac{2}{3} \alpha_6 \partial_{\beta} \omega^{\alpha\beta}_{\alpha} \omega^{\chi\delta}_{\chi} - \\ & \beta_1 \partial^{\chi} f^{\beta}_{\zeta} \partial^{\zeta} f^{\alpha}_{\beta\chi} - \beta_1 \partial^{\chi} f^{\beta}_{\zeta} \partial^{\zeta} f^{\alpha}_{\chi\beta} + \beta_1 \partial^{\chi} f^{\delta}_{\delta\zeta} \partial^{\zeta} f^{\delta}_{\chi} - \beta_1 \partial^{\chi} f^{\delta}_{\zeta\delta} \partial^{\zeta} f^{\delta}_{\chi} \end{aligned} $
Added source term:	$f^{\alpha\beta} \tau_{\alpha\beta} + \omega^{\alpha\beta\chi} \sigma_{\alpha\beta\chi}$