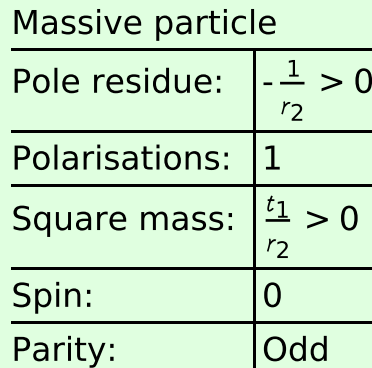

$$r_2 < 0 \ \&\& \ r_5 < 0 \ \&\& \ t_1 < 0 \ \&\& \ 0 < t_3 < -t_1$$

(No massless particles)



Lagrangian density	$ \begin{aligned} & -\frac{1}{3}t_1\omega'_{\kappa\alpha}\omega^{\alpha\kappa}_{\kappa\alpha}+\frac{2}{3}t_3\omega'_{\kappa\alpha}\omega^{\alpha\kappa}_{\kappa\alpha}-t_1\omega'_{\kappa\lambda}\omega^{\lambda\kappa}_{\kappa\lambda}-r_5\partial_\lambda\omega'^{\kappa\lambda}_{\kappa\lambda}\omega^{\alpha\kappa}_{\kappa\alpha}+ \\ & \frac{2}{3}r_2\partial^\beta\omega'^{\theta\alpha}_{\kappa\alpha}\partial_\theta\omega'^{\kappa-\frac{1}{3}}_{\alpha\beta}-\frac{1}{3}r_2\partial_\theta\omega'^{\kappa\alpha\beta\theta}_{\alpha\beta}-\frac{2}{3}r_2\partial_\theta\omega'^{\kappa\alpha\beta}_{\alpha\beta}- \\ & r_5\partial_\alpha\omega'^{\alpha}_{\lambda\theta}\partial_\kappa\omega'^{\theta\kappa\lambda}_{\theta\alpha}+r_5\partial_\theta\omega'^{\alpha}_{\lambda\alpha}\partial_\kappa\omega'^{\theta\kappa\lambda}_{\theta\alpha}-r_5\partial_\alpha\omega'^{\alpha}_{\lambda\theta}\partial_\kappa\omega'^{\kappa\lambda\theta}_{\theta\alpha}+ \\ & 2r_5\partial_\theta\omega'^{\alpha}_{\lambda\alpha}\partial_\kappa\omega'^{\kappa\lambda\theta}_{\theta\alpha}-\frac{1}{2}t_1\partial^\alpha f'^{\theta}_{\theta\kappa}\partial^\kappa f'^{\theta}_{\alpha\kappa}-\frac{1}{2}t_1\partial^\alpha f'^{\theta}_{\theta\kappa}\partial^\kappa f'^{\theta}_{\alpha\kappa}- \\ & \frac{1}{2}t_1\partial^\alpha f'^{\lambda}_{\kappa\alpha}\partial^\kappa f'^{\alpha\lambda}_{\kappa\alpha}+\frac{1}{3}t_1\omega'^{\alpha}_{\kappa\alpha}\partial^\kappa f'^{\lambda}_{\lambda\kappa}-\frac{2}{3}t_3\omega'^{\alpha}_{\kappa\alpha}\partial^\kappa f'^{\lambda}_{\lambda\kappa}+\frac{1}{3}t_1\omega'^{\lambda}_{\kappa\lambda}\partial^\kappa f'^{\lambda}_{\lambda\kappa}- \\ & \frac{2}{3}t_3\omega'^{\lambda}_{\kappa\lambda}\partial^\kappa f'^{\lambda}_{\lambda\kappa}+\frac{2}{3}t_1\partial^\alpha f'^{\lambda}_{\kappa\alpha}\partial^\kappa f'^{\alpha\lambda}_{\kappa\alpha}-\frac{4}{3}t_3\partial^\alpha f'^{\lambda}_{\kappa\alpha}\partial^\kappa f'^{\alpha\lambda}_{\kappa\alpha}-\frac{1}{3}t_1\partial_\kappa f'^{\lambda}_{\lambda\kappa}\partial^\kappa f'^{\lambda}_{\lambda\kappa}+ \\ & \frac{2}{3}t_3\partial_\kappa f'^{\lambda}_{\lambda\kappa}\partial^\kappa f'^{\lambda}_{\lambda\kappa}+2t_1\omega'^{\kappa\theta}_{\kappa\theta}\partial^\kappa f'^{\theta}_{\lambda\kappa}-\frac{1}{3}t_1\omega'^{\alpha}_{\kappa\alpha}\partial^\kappa f'^{\lambda}_{\lambda\kappa}+\frac{2}{3}t_3\omega'^{\alpha}_{\kappa\alpha}\partial^\kappa f'^{\lambda}_{\lambda\kappa}- \\ & \frac{1}{3}t_1\omega'^{\lambda}_{\kappa\lambda}\partial^\kappa f'^{\lambda}_{\lambda\kappa}+\frac{2}{3}t_3\omega'^{\lambda}_{\kappa\lambda}\partial^\kappa f'^{\lambda}_{\lambda\kappa}+\frac{1}{2}t_1\partial^\alpha f'^{\lambda}_{\kappa\alpha}\partial^\kappa f'^{\alpha\lambda}_{\kappa\alpha}+\frac{1}{2}t_1\partial_\kappa f'^{\lambda}_{\lambda\kappa}\partial^\kappa f'^{\lambda}_{\lambda\kappa}+ \\ & \frac{1}{2}t_1\partial_\kappa f'^{\lambda}_{\lambda\kappa}\partial^\kappa f'^{\theta}_{\lambda\kappa}-\frac{1}{3}t_1\partial^\alpha f'^{\lambda}_{\kappa\alpha}\partial^\kappa f'^{\alpha\lambda}_{\kappa\alpha}+\frac{2}{3}t_3\partial^\alpha f'^{\lambda}_{\kappa\alpha}\partial^\kappa f'^{\alpha\lambda}_{\kappa\alpha}+ \\ & \frac{1}{3}r_2\partial_\kappa\omega'^{\alpha\beta\theta}_{\alpha\beta}\partial^\kappa\omega'^{\theta}_{\alpha\beta}+\frac{2}{3}r_2\partial_\kappa\omega'^{\theta\alpha\beta}_{\alpha\beta}\partial^\kappa\omega'^{\theta}_{\alpha\beta}-\frac{2}{3}r_2\partial^\beta\omega'^{\alpha\lambda}_{\lambda\alpha}\partial_\lambda\omega'^{\alpha\kappa}_{\kappa\alpha}-r_5\partial_\alpha\omega'^{\alpha}_{\lambda\theta}\partial^\lambda\omega'^{\theta\kappa}_{\theta\kappa} \\ & \frac{2}{3}r_2\partial^\beta\omega'^{\lambda\alpha}_{\lambda\alpha}\partial_\lambda\omega'^{\alpha}_{\alpha\beta}+r_5\partial_\alpha\omega'^{\alpha}_{\lambda\theta}\partial^\lambda\omega'^{\theta\kappa}_{\theta\kappa}-r_5\partial_\theta\omega'^{\alpha}_{\lambda\alpha}\partial^\lambda\omega'^{\theta\kappa}_{\theta\kappa} \end{aligned} $
Added source term:	$f^{\alpha\beta}\tau_{\alpha\beta}+\omega^{\alpha\beta\chi}\sigma_{\alpha\beta\chi}$

0	$-\frac{\sqrt{2}}{t_1+k^2t_1}$	$-\frac{i\sqrt{2}k}{t_1+k^2t_1}$	0	0	0	0
$-\frac{\sqrt{2}}{t_1+k^2t_1}$	$-\frac{2k^2r_5+t_1}{(1+k^2)^2t_1^2}$	$-\frac{i(2k^3r_5-kt_1)}{(1+k^2)^2t_1^2}$	0	0	0	0
$\frac{i\sqrt{2}k}{t_1+k^2t_1}$	$\frac{i(2k^3r_5-kt_1)}{(1+k^2)^2t_1^2}$	$\frac{-2k^4r_5+k^2t_1}{(1+k^2)^2t_1^2}$	0	0	0	0
0	0	0	$\frac{2(t_1+t_3)}{3t_1t_3+2k^2r_5(t_1+t_3)}$	$-\frac{\sqrt{2}(t_1-2t_3)}{(1+2k^2)(3t_1t_3+2k^2r_5(t_1+t_3))}$	0	$-\frac{2ik(t_1-2t_3)}{(1+2k^2)(3t_1t_3+2k^2r_5(t_1+t_3))}$
0	0	0	$-\frac{\sqrt{2}(t_1-2t_3)}{(1+2k^2)(3t_1t_3+2k^2r_5(t_1+t_3))}$	$\frac{6k^2r_5+t_1+4t_3}{(1+2k^2)^2(3t_1t_3+2k^2r_5(t_1+t_3))}$	0	$\frac{i\sqrt{2}k(6k^2r_5+t_1+4t_3)}{(1+2k^2)^2(3t_1t_3+2k^2r_5(t_1+t_3))}$
0	0	0	0	0	0	0
0	0	0	$\frac{2ik(t_1-2t_3)}{(1+2k^2)(3t_1t_3+2k^2r_5(t_1+t_3))}$	$-\frac{i\sqrt{2}k(6k^2r_5+t_1+4t_3)}{(1+2k^2)^2(3t_1t_3+2k^2r_5(t_1+t_3))}$	0	$\frac{2k^2(6k^2r_5+t_1+4t_3)}{(1+2k^2)^2(3t_1t_3+2k^2r_5(t_1+t_3))}$

	$\omega_{1+}^{\#1} \alpha \beta$	$\omega_{1+}^{\#2} \alpha \beta$	$f_{1+}^{\#1} \alpha \beta$	$\omega_{1-}^{\#1} \alpha$	$\omega_{1-}^{\#2} \alpha$	$f_{1-}^{\#1} \alpha$	$f_{1-}^{\#2} \alpha$
$\omega_{1+}^{\#1} \dagger \alpha \beta$	$k^2 r_5 - \frac{t_1}{2}$	$-\frac{t_1}{\sqrt{2}}$	$-\frac{i k t_1}{\sqrt{2}}$	0	0	0	0
$\omega_{1+}^{\#2} \dagger \alpha \beta$	$-\frac{t_1}{\sqrt{2}}$	0	0	0	0	0	0
$f_{1+}^{\#1} \dagger \alpha \beta$	$\frac{i k t_1}{\sqrt{2}}$	0	0	0	0	0	0
$\omega_{1-}^{\#1} \dagger \alpha$	0	0	0	$\frac{1}{6} (6 k^2 r_5 + t_1 + 4 t_3)$	$\frac{t_1 - 2 t_3}{3 \sqrt{2}}$	0	$\frac{1}{3} i k (t_1 - 2 t_3)$
$\omega_{1-}^{\#2} \dagger \alpha$	0	0	0	$\frac{t_1 - 2 t_3}{3 \sqrt{2}}$	$\frac{t_1 + t_3}{3}$	0	$\frac{1}{3} i \sqrt{2} k (t_1 + t_3)$
$f_{1-}^{\#1} \dagger \alpha$	0	0	0	0	0	0	0
$f_{1-}^{\#2} \dagger \alpha$	0	0	0	$-\frac{1}{3} i k (t_1 - 2 t_3)$	$-\frac{1}{3} i \sqrt{2} k (t_1 + t_3)$	0	$\frac{2}{3} k^2 (t_1 + t_3)$

	$\omega_{0+}^{\#1}$	$f_{0+}^{\#1}$	$f_{0+}^{\#2}$	$\omega_{0-}^{\#1}$
$\omega_{0+}^{\#1} \dagger$	t_3	$-i \sqrt{2} k t_3$	0	0
$f_{0+}^{\#1} \dagger$	$i \sqrt{2} k t_3$	$2 k^2 t_3$	0	0
$f_{0+}^{\#2} \dagger$	0	0	0	0
$\omega_{0-}^{\#1} \dagger$	0	0	0	$k^2 r_2 - t_1$

	$\omega_{2^+ \alpha \beta}^{\#1}$	$f_{2^+ \alpha \beta}^{\#1}$	$\omega_{2^- \alpha \beta \chi}^{\#1}$
$\omega_{2^+}^{\#1} \uparrow^{\alpha \beta}$	$\frac{t_1}{2}$	$-\frac{i k t_1}{\sqrt{2}}$	0
$f_{2^+}^{\#1} \uparrow^{\alpha \beta}$	$\frac{i k t_1}{\sqrt{2}}$	$k^2 t_1$	0
$\omega_{2^-}^{\#1} \uparrow^{\alpha \beta \chi}$	0	0	$\frac{t_1}{2}$

Source constraints	#
$SO(3)$ irreps	1
$\tau_0^2 == 0$	1
$\tau_0^{1-} - 2 \, i \, k \, \sigma_0^{1+} == 0$	3
$\tau_1^{2\alpha} + 2 \, i \, k \, \sigma_1^{2\alpha} == 0$	3
$\tau_1^{1\alpha} == 0$	3
$\tau_1^{1\alpha\beta} + i \, k \, \sigma_1^{2\alpha\beta} == 0$	5
$\tau_2^{1\alpha\beta} - 2 \, i \, k \, \sigma_2^{1\alpha\beta} == 0$	16
Total #:	

$\sigma_0^{\#1} +$	$\frac{1}{(1+2k^2)^2 t_3}$	$-\frac{i\sqrt{2}k}{(1+2k^2)^2 t_3}$	0	$\sigma_0^{\#1}$
$\sigma_0^{\#1} +$	$\frac{i\sqrt{2}k}{(1+2k^2)^2 t_3}$	$\frac{2k^2}{(1+2k^2)^2 t_3}$	0	$\sigma_0^{\#1}$
$\sigma_0^{\#2} +$	0	0	0	$\sigma_0^{\#1}$
$\sigma_0^{\#1} +$	0	0	0	$\frac{1}{k^2 r_2 t_1}$

$\sigma_{2+}^{\#1} + \alpha\beta$	$\frac{2}{(1+2k^2)^2 t_1}$	$\tau_{2+}^{\#1} + \alpha\beta$	$-\frac{2i\sqrt{2}k}{(1+2k^2)^2 t_1}$	$\sigma_{2-}^{\#1} - \alpha\beta\chi$	0
$\tau_{2+}^{\#1} + \alpha\beta$	$\frac{2i\sqrt{2}k}{(1+2k^2)^2 t_1}$	$\tau_{2+}^{\#1} + \alpha\beta$	$\frac{4k^2}{(1+2k^2)^2 t_1}$		0
$\tau_{2+}^{\#1} + \alpha\beta\chi$	0		0		$\frac{2}{t_1}$