



Massive particle	
Pole residue:	$-\frac{1}{r_1} > 0$
Polarisations:	5
Square mass:	$-\frac{t_1}{2r_1} > 0$
Spin:	2
Parity:	Odd

$$r_1 < 0 \&\& t_1 > 0$$

Unitarity conditions

(No massless particles)

Lagrangian density

[illegible]

Added source term: $f^{\alpha\beta}$

$$g_{\beta}^{\alpha} + \omega^{\alpha\beta} \sigma_{\alpha\beta\gamma}$$

$\omega_1^{\#1} + \alpha\beta$	$\omega_1^{\#2} + \alpha\beta$	$f_1^{\#1} + \alpha\beta$	$\omega_1^{\#1} + \alpha$	$\omega_1^{\#2} + \alpha$	$f_1^{\#1} + \alpha$	$f_1^{\#2} + \alpha$
$k^2 r_1 - \frac{t_1}{2}$	$-\frac{t_1}{\sqrt{2}}$	$-\frac{i k t_1}{\sqrt{2}}$	0	0	0	0
$-\frac{t_1}{\sqrt{2}}$	0	0	0	0	0	0
$\frac{i k t_1}{\sqrt{2}}$	0	0	0	0	0	0
0	0	0	$\frac{t_1}{6}$	$\frac{t_1}{3\sqrt{2}}$	0	$\frac{i k t_1}{3}$
0	0	0	$\frac{t_1}{3\sqrt{2}}$	$\frac{t_1}{3}$	0	$\frac{1}{3} i \sqrt{2} k t_1$
0	0	0	0	0	0	0
0	0	0	$-\frac{1}{3} i k t_1$	$-\frac{1}{3} i \sqrt{2} k t_1$	0	$\frac{2 k^2 t_1}{3}$

Source constraints

#	SO(3) irreps
1	$\sigma_0^{#1} == 0$
1	$\tau_0^{#1} == 0$
1	$\tau_0^{#2} == 0$
3	$\tau_1^{#2\alpha} + 2ik \sigma_1^{#1\alpha} == 0$
3	$\tau_1^{#1\alpha} == 0$
3	$\sigma_1^{#1\alpha} == \sigma_1^{#2\alpha}$
3	$\tau_1^{#1\alpha\beta} + ik \sigma_1^{#2\alpha\beta} == 0$
5	$\tau_2^{#1\alpha\beta} - 2ik \sigma_2^{#1\alpha\beta} == 0$
20	Total #:

	$\sigma_{2+}^{\#1} \alpha\beta$	$\tau_{2+}^{\#1} \alpha\beta$	$\sigma_{2-}^{\#1} \alpha\beta\chi$
$\sigma_{2+}^{\#1} \dagger \alpha\beta$	$\frac{2}{(1+2k^2)^2 t_1}$	$-\frac{2i\sqrt{2}k}{(1+2k^2)^2 t_1}$	0
$\tau_{2+}^{\#1} \dagger \alpha\beta$	$\frac{2i\sqrt{2}k}{(1+2k^2)^2 t_1}$	$\frac{4k^2}{(1+2k^2)^2 t_1}$	0
$\sigma_{2-}^{\#1} \dagger \alpha\beta\chi$	0	0	$\frac{2}{2k^2 r_1 + t_1}$

$\omega_0^{\#1} \vdash$	0	0	0	0
$f_0^{\#1} \vdash$	0	0	0	0
$f_0^{\#2} \vdash$	0	0	0	0
$\omega_0^{\#1} \vdash$	0	0	0	$-t_1$

	$\sigma_{0+}^{\#1}$	$\tau_{0+}^{\#1}$	$\tau_{0+}^{\#2}$	$\sigma_{0-}^{\#1}$
$\sigma_{0+}^{\#1} \uparrow$	0	0	0	0
$\tau_{0+}^{\#1} \uparrow$	0	0	0	0
$\tau_{0+}^{\#2} \uparrow$	0	0	0	0
$\sigma_{0-}^{\#1} \uparrow$	0	0	0	$-\frac{1}{t_1}$

$\omega_2^{\#1} + \alpha\beta$	$\frac{t_1}{2}$	$-\frac{ikt_1}{\sqrt{2}}$	0	$\omega_2^{\#1} - \alpha\beta X$
$f_2^{\#1} + \alpha\beta$	$\frac{ikt_1}{\sqrt{2}}$	$k^2 t_1$	0	
$\omega_2^{\#1} + \alpha\beta X$	0	0	$k^2 r_1 + \frac{t_1}{2}$	