$ au_1^{\#2}$	0	0	0	$-\frac{2ikt_1-4ikt_3}{3t_1t_3+6k^2t_1t_3}$	$\frac{i\sqrt{2}k(t_1+4t_3)}{3(1+2k^2)^2t_1t_3}$	0	$\frac{2k^2(t_1+4t_3)}{3(1+2k^2)^2t_1t_3}$
$\tau_{1^{-}}^{\#1}\alpha$	0	0	0	0	0	0	0
$\sigma_{1^{-}lpha}^{\#2}$	0	0	0	$-\frac{\sqrt{2} (t_1 - 2t_3)}{3(1 + 2k^2)t_1t_3}$	$\frac{t_1+4t_3}{3(1+2k^2)^2t_1t_3}$	0	$-\frac{i\sqrt{2}k(t_1+4t_3)}{3(1+2k^2)^2t_1t_3}$
$\sigma_{1^{-}\alpha}^{\#1}$	0	0	0	$\frac{2(t_1+t_3)}{3t_1t_3}$	$-\frac{\sqrt{2} (t_1 - 2t_3)}{3(1 + 2k^2)t_1t_3}$	0	$\frac{2ik(t_1-2t_3)}{3t_1t_3+6k^2t_1t_3}$
$\tau_1^{\#1}{}_+\alpha\beta$	$-\frac{i\sqrt{2}k}{t_1+k^2t_1}$	$-\frac{i(2k^3r_1-kt_1)}{(1+k^2)^2t_1^2}$	$\frac{-2k^4r_1+k^2t_1}{(1+k^2)^2t_1^2}$	0	0	0	0
$\sigma_{1}^{\#2}{}_{\alpha\beta}$	$-\frac{\sqrt{2}}{t_1+k^2t_1}$	$\frac{-2k^2r_1+t_1}{(1+k^2)^2t_1^2}$	$\frac{i(2k^3r_1-kt_1)}{(1+k^2)^2t_1^2}$	0	0	0	0
$\sigma_{1}^{\#1}{}_{\alpha\beta}$	0	$-\frac{\sqrt{2}}{t_1+k^2t_1}$	$\frac{i\sqrt{2}k}{t_1+k^2t_1}$	0	0	0	0
	$\sigma_{1}^{\#1} + \alpha^{eta}$	$\sigma_{1+}^{#2} + \alpha \beta$	$\tau_{1+}^{\#1} + \alpha \beta$	$\sigma_{1}^{\#1} +^{\alpha}$	$\sigma_1^{\#2} +^{\alpha}$	$\tau_{1}^{\#1} +^{\alpha}$	$\tau_1^{\#2} + ^{\alpha}$

£#2		0	0	0	$\frac{1}{3}$ $\bar{l}$ $k$ $(t_1 - 2t_3)$	$\frac{1}{3}$ i $\sqrt{2}$ k ( $t_1 + t_3$	0	$\frac{2}{3} k^2 (t_1 + t_3)$	
¢#1	$^{\prime}$ 1 <sup>-</sup> $\alpha$	0	0	0	0	0	0	0	
2#'''	$\omega_{1^-} \ \alpha$	0	0	0	$\frac{t_1-2t_3}{3\sqrt{2}}$	$\frac{t_1+t_3}{3}$	0	$-\frac{1}{3}\bar{l}k(t_1-2t_3)\left -\frac{1}{3}\bar{l}\sqrt{2}k(t_1+t_3)\right $	
,,,#1	$\omega_{1^-} \ lpha$	0	0	0	$\frac{1}{6}(t_1+4t_3)$	$\frac{t_1-2t_3}{3\sqrt{2}}$	0	$-\frac{1}{3}\bar{l}k(t_1-2t_3)$	
f#1	$'$ 1 <sup>+</sup> $\alpha\beta$	$-\frac{ikt_1}{\sqrt{2}}$	0	0	0	0	0	0	
7#5	$\omega_1^+ \alpha \beta$	$-\frac{t_1}{\sqrt{2}}$	0	0	0	0	0	0	
(')#1 (')#5 ¢#1	$\omega_1^+ \alpha \beta$	$k^2 r_1 - \frac{t_1}{2}$	$-\frac{t_1}{\sqrt{2}}$	$\frac{i k t_1}{\sqrt{2}}$	0	0	0	0	
		$\omega_{1}^{#1} + \alpha \beta \frac{k}{k}$	$\omega_1^{\#2} + ^{lphaeta}$	$f_{1}^{#1} + \alpha \beta$	$\omega_{1}^{\#1} +^{\alpha}$	$\omega_1^{\#2} +^{lpha}$	$f_1^{\#1} + \alpha$	$f_1^{\#2} + \alpha$	

$\sigma_{2^{-}}^{\#1}lphaeta\chi$	0	0	$\frac{2}{2k^2r_1+t_1}$
$\tau_{2}^{\#1}{}_{\alpha\beta}$	$-\frac{2i\sqrt{2}k}{(1+2k^2)^2t_1}$	$\frac{4k^2}{(1+2k^2)^2t_1}$	0
$\sigma_{2}^{\#1}{}_{\alpha\beta}$		$\frac{2i\sqrt{2}k}{(1+2k^2)^2t_1}$	0
	$\sigma_{2}^{\#1} + \alpha \beta$	$\tau_2^{\#1} + ^{\alpha\beta}$	$\sigma_{2}^{*1} + \alpha \beta \chi$

 $\frac{i\sqrt{2} k}{(1+2k^2)^2 t_3}$ 

0

 $\tau_{0}^{\#2}$  †

_	$\omega_{2^{+}\alpha\beta}^{\#1}$	$f_{2}^{\#1}{}_{\alpha\beta}$	$\omega_{2^{-}\alpha\beta\chi}^{\#1}$
$\omega_{2}^{\#1} \dagger^{\alpha\beta}$	<u>t</u> 1 2	$-\frac{ikt_1}{\sqrt{2}}$	0
$f_{2+}^{\#1}\dagger^{\alpha\beta}$	$\frac{i k t_1}{\sqrt{2}}$	$k^2 t_1$	0
$\omega_2^{\sharp 1} \dagger^{lphaeta\chi}$	0	0	$k^2 r_1 + \frac{t_1}{2}$

	$\omega_{0}^{\sharp 1}$	$f_{0}^{#1}$	$f_{0+}^{#2}$	$\omega_0^{\#1}$
$\omega_{0^+}^{\sharp 1}$ †	$t_3$	$-\bar{l}\sqrt{2}kt_3$	0	0
$f_{0}^{#1} \dagger$	$i\sqrt{2} kt_3$	$2k^2t_3$	0	0
$f_{0^{+}}^{#2}$ †	0	0	0	0
$\omega_{0^{-}}^{\sharp 1}$ †	0	0	0	-t <sub>1</sub>

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

0

0

0

0

0

 $-\frac{1}{t_1}$ 

ī √2 k

 $\frac{1}{(1+2k^2)^2t_3}$ 

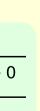
 $\frac{2k^2}{(1+2k^2)^2t_3}$ 

0

0

## Source constraints

SO(3) irreps	#
$\tau_{0^{+}}^{\#2} == 0$	1
$\tau_{0+}^{\#1} - 2  \bar{i}  k  \sigma_{0+}^{\#1} == 0$	1
$\tau_{1}^{\#2\alpha} + 2 i k \sigma_{1}^{\#2\alpha} == 0$	3
$\tau_{1}^{\#1}{}^{\alpha} == 0$	3
$\tau_{1+}^{\#1}{}^{\alpha\beta} + ik \sigma_{1+}^{\#2}{}^{\alpha\beta} == 0$	3
$\tau_{2+}^{\#1\alpha\beta} - 2\bar{\imath}k\sigma_{2+}^{\#1\alpha\beta} == 0$	5
Total #:	16



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

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

(No massless particles)