

	$\sigma_{1^+}^{\#1} \alpha\beta$	$\sigma_{1^+}^{\#2} \alpha\beta$	$\tau_{1^+}^{\#1} \alpha\beta$	$\sigma_{1^-}^{\#1} \alpha$	$\sigma_{1^-}^{\#2} \alpha$	$\tau_{1^-}^{\#1} \alpha$	$\tau_{1^-}^{\#2} \alpha$
$\sigma_{1^+}^{\#1} \dagger \alpha\beta$	0	$-\frac{\sqrt{2}}{t_1+k^2 t_1}$	$-\frac{i \sqrt{2} k}{t_1+k^2 t_1}$	0	0	0	0
$\sigma_{1^+}^{\#2} \dagger \alpha\beta$	$-\frac{\sqrt{2}}{t_1+k^2 t_1}$	$\frac{-2 k^2 (2 r_3+r_5)+t_1}{(1+k^2)^2 t_1^2}$	$\frac{-2 i k^3 (2 r_3+r_5)+i k t_1}{(1+k^2)^2 t_1^2}$	0	0	0	0
$\tau_{1^+}^{\#1} \dagger \alpha\beta$	$\frac{i \sqrt{2} k}{t_1+k^2 t_1}$	$\frac{i (2 k^3 (2 r_3+r_5)-k t_1)}{(1+k^2)^2 t_1^2}$	$\frac{-2 k^4 (2 r_3+r_5)+k^2 t_1}{(1+k^2)^2 t_1^2}$	0	0	0	0
$\sigma_{1^-}^{\#1} \dagger \alpha$	0	0	0	$\frac{1}{k^2 (-r_1+2 r_3+r_5)}$	$\frac{1}{\sqrt{2} (k^2+2 k^4) (r_1-2 r_3-r_5)}$	0	$\frac{i}{k (1+2 k^2) (r_1-2 r_3-r_5)}$
$\sigma_{1^-}^{\#2} \dagger \alpha$	0	0	0	$\frac{1}{\sqrt{2} (k^2+2 k^4) (r_1-2 r_3-r_5)}$	$\frac{1}{-r_1+2 r_3+r_5} + \frac{6 k^2}{2 (k+2 k^3)^2 t_1}$	0	$\frac{i (6 k^2 (r_1-2 r_3-r_5)-t_1)}{\sqrt{2} k (1+2 k^2)^2 (r_1-2 r_3-r_5) t_1}$
$\tau_{1^-}^{\#1} \dagger \alpha$	0	0	0	0	0	0	0
$\tau_{1^-}^{\#2} \dagger \alpha$	0	0	0	$\frac{i}{k (1+2 k^2) (-r_1+2 r_3+r_5)}$	$-\frac{i (6 k^2 (r_1-2 r_3-r_5)-t_1)}{\sqrt{2} k (1+2 k^2)^2 (r_1-2 r_3-r_5) t_1}$	0	$\frac{1}{-r_1+2 r_3+r_5} + \frac{6 k^2}{(1+2 k^2)^2 t_1}$

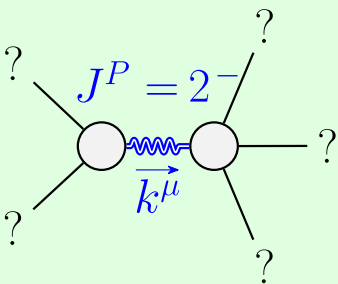
	$\omega_0^{\#1}$	$f_0^{\#1}$	$f_0^{\#2}$	$\omega_0^{\#1}$
$\omega_0^{\#1} \vdash$	$6k^2(-r_1 + r_3)$	0	0	0
$f_0^{\#1} \vdash$	0	0	0	0
$f_0^{\#2} \vdash$	0	0	0	0
$\omega_0^{\#1} \vdash$	0	0	0	$-t_1$

	$\omega_{2^+}^{\#1} \alpha\beta$	$f_{2^+}^{\#1} \alpha\beta$	$\omega_{2^+}^{\#1} \alpha\beta\chi$
$\omega_{2^+}^{\#1} \dagger \alpha\beta$	$\frac{t_1}{2}$	$-\frac{ikt_1}{\sqrt{2}}$	0
$f_{2^+}^{\#1} \dagger \alpha\beta$	$\frac{ikt_1}{\sqrt{2}}$	$k^2 t_1$	0
$\omega_{2^+}^{\#1} \dagger \alpha\beta\chi$	0	0	$k^2 r_1 + \frac{t_1}{2}$

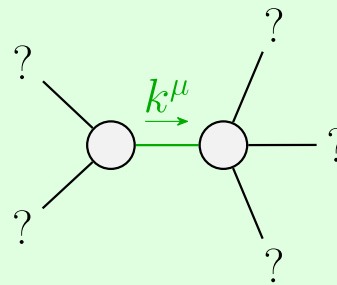
Source constraints	
SO(3) irreps	#
$\tau_0^{\#2} == 0$	1
$\tau_0^{\#1} == 0$	1
$\tau_1^{\#2\alpha} + 2i k \sigma_1^{\#2\alpha} == 0$	3
$\tau_1^{\#1\alpha} == 0$	3
$\tau_1^{\#1\alpha\beta} + i k \sigma_1^{\#2\alpha\beta} == 0$	3
$\tau_2^{\#1\alpha\beta} - 2i k \sigma_2^{\#1\alpha\beta} == 0$	5
Total #: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

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

	$\sigma_{0+}^{\#1}$	$\tau_{0+}^{\#1}$	$\tau_{0+}^{\#2}$	$\sigma_0^{\#1}$
$\sigma_{0+}^{\#1} +$	$\frac{1}{6k^2(-r_1+r_3)}$	0	0	0
$\tau_{0+}^{\#1} +$	0	0	0	0
$\tau_{0+}^{\#2} +$	0	0	0	0
$\sigma_0^{\#1} +$	0	0	0	$-\frac{1}{t_1}$



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



Quadratic pole	
Pole residue:	$\frac{1}{(r_1 - 2r_3 - r_5)t_1^2} > 0$
Polarisations:	2

Unitarity conditions

$$r_1 < 0 \ \&\& \ r_5 < r_1 - 2r_3 \ \&\& \ t_1 > 0$$

	$\omega_{1+}^{\#1} + \alpha\beta$	$\omega_{1+}^{\#2} + \alpha\beta$	$f_{1+}^{\#1} + \alpha\beta$	$\omega_{1+}^{\#1} + \alpha$	$\omega_{1+}^{\#2} + \alpha$	$f_{1+}^{\#1} + \alpha$	$f_{1+}^{\#2} + \alpha$
$\omega_{1+}^{\#1} + \alpha\beta$	$k^2(2r_3 + r_5) - \frac{t_1}{2}$	$-\frac{t_1}{\sqrt{2}}$	$-\frac{ik t_1}{\sqrt{2}}$	0	0	0	0
$\omega_{1+}^{\#2} + \alpha\beta$	$-\frac{t_1}{\sqrt{2}}$	0	0	0	0	0	0
$f_{1+}^{\#1} + \alpha\beta$	$\frac{ik t_1}{\sqrt{2}}$	0	0	0	0	0	0
$\omega_{1+}^{\#1} + \alpha$	0	0	0	$k^2(-r_1 + 2r_3 + r_5) + \frac{t_1}{6}$	$\frac{t_1}{3\sqrt{2}}$	0	$\frac{ik t_1}{3}$
$\omega_{1+}^{\#2} + \alpha$	0	0	0	$\frac{t_1}{3\sqrt{2}}$	$\frac{t_1}{3}$	0	$\frac{1}{3}\bar{v}\sqrt{2}kt_1$
$f_{1+}^{\#1} + \alpha$	0	0	0	0	0	0	0
$f_{1+}^{\#2} + \alpha$	0	0	0	$-\frac{1}{3}\bar{v}kt_1$	$-\frac{1}{3}\bar{v}\sqrt{2}kt_1$	0	$\frac{2k^2t_1}{3}$