$\tau_{1}^{\#2}{}_{\alpha}$	0	0	0	$\frac{4i}{k(1+2k^2)(r_3+2r_5)}$	$\frac{i\sqrt{2}(3k^2(r_3+2r_5)+4t_3)}{k(1+2k^2)^2(r_3+2r_5)t_3}$	0	$\frac{6k^2(r_3+2r_5)+8t_3}{(1+2k^2)^2(r_3+2r_5)t_3}$
$\tau_{1^{-}}^{\#1}\alpha$	0	0	0	0	0	0	0
$\sigma_{1}^{\#2}{}_{\alpha}$	0	0	0	$\frac{2\sqrt{2}}{k^2(1+2k^2)(r_3+2r_5)}$	$\frac{3k^2(r_3+2r_5)+4t_3}{(k+2k^3)^2(r_3+2r_5)t_3}$	0	$-\frac{i\sqrt{2}(3k^2(r_3+2r_5)+4t_3)}{k(1+2k^2)^2(r_3+2r_5)t_3}$
$\sigma_{1^{-}\alpha}^{\#1}$	0	0	0	$\frac{2}{k^2 (r_3 + 2 r_5)}$	$\frac{2\sqrt{2}}{k^2(1+2k^2)(r_3+2r_5)}$	0	$-\frac{4i}{k(1+2k^2)(r_3+2r_5)}$
$\tau_{1}^{\#1}_{+}$	$-\frac{i\sqrt{2}}{k(1+k^2)(2r_3+r_5)}$	$\frac{i(3k^2(2r_3+r_5)+2t_2)}{k(1+k^2)^2(2r_3+r_5)t_2}$	$\frac{3k^2(2r_3+r_5)+2t_2}{(1+k^2)^2(2r_3+r_5)t_2}$	0	0	0	0
$\sigma_{1}^{\#2}{}_{+}\alpha\beta$	$-\frac{\sqrt{2}}{k^2(1+k^2)(2r_3+r_5)}$	$\frac{3k^2(2r_3+r_5)+2t_2}{(k+k^3)^2(2r_3+r_5)t_2}$	$-\frac{i(3k^2(2r_3+r_5)+2t_2)}{k(1+k^2)^2(2r_3+r_5)t_2}$	0	0	0	0
$\sigma_{1}^{\#1}{}_{\alpha\beta}$	$\frac{1}{k^2 (2 r_3 + r_5)}$	$-\frac{\sqrt{2}}{k^2(1+k^2)(2r_3+r_5)}$	$\frac{i \sqrt{2}}{k(1+k^2)(2r_3+r_5)}$	0	0	0	0
	$a_1^{\#1} + \alpha \beta$	$r_1^{#2} + \alpha \beta$	${\mathfrak l}_1^{\#1} + {\mathfrak a}^{\beta}$	$\sigma_{1}^{\#1} +^{lpha}$	$\sigma_{1}^{\#2} +^{lpha}$	$\tau_{1}^{\#1} +^{\alpha}$	$\tau_{1}^{#2} + ^{\alpha}$

	$\omega_{1^{+}lphaeta}^{\sharp1}$	$\omega_{1}^{\#2}{}_{\alpha\beta}$	$f_{1^{+}\alpha\beta}^{\#1}$	$\omega_{1^{-}\alpha}^{\sharp 1}$	$\omega_{1-\alpha}^{\#2}$	$f_{1-\alpha}^{\#1}$	$f_{1}^{#2}\alpha$
$\omega_{1}^{\#1} \dagger^{\alpha\beta}$	$k^2 (2r_3 + r_5) + \frac{2t_2}{3}$	$\frac{\sqrt{2} t_2}{3}$	$\frac{1}{3}i\sqrt{2}kt_2$	0	0	0	0
$\omega_{1}^{\#2} \dagger^{\alpha\beta}$	$\frac{\sqrt{2} t_2}{3}$	<u>t2</u> 3	<u>i kt2</u> 3	0	0	0	0
$f_{1}^{#1} \dagger^{\alpha\beta}$	$-\frac{1}{3}i\sqrt{2}kt_2$	$-\frac{1}{3}ikt_2$	$\frac{k^2 t_2}{3}$	0	0	0	0
$\omega_1^{\#1}$ † $^{lpha}$	0	0	0	$k^2 \left(\frac{r_3}{2} + r_5\right) + \frac{2t_3}{3}$	$-\frac{\sqrt{2}t_3}{3}$	0	$-\frac{2}{3}ikt_3$
$\omega_1^{\#2} \dagger^{\alpha}$	0	0	0	$-\frac{\sqrt{2}t_3}{3}$	<i>t</i> 3 3	0	$\frac{1}{3} i \sqrt{2} k t_3$
$f_{1}^{#1} \dagger^{\alpha}$	0	0	0	0	0	0	0
$f_1^{#2} \dagger^{\alpha}$	0	0	0	<u>2ikt3</u> 3	$-\frac{1}{3}\bar{l}\sqrt{2}kt_3$	0	$\frac{2k^2t_3}{3}$

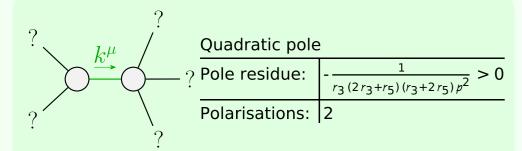
	$\sigma_{2}^{\#1}{}_{\alpha\beta}$	$ au_2^{\#1}_{lphaeta}$	$\sigma_{2}^{\#1}{}_{\alpha\beta\chi}$
$\sigma_{2}^{\#1} \dagger^{\alpha\beta}$	$-\frac{2}{3k^2r_3}$	0	0
$\tau_{2}^{\#1} \dagger^{\alpha\beta}$	0	0	0
$\sigma_{2}^{\#1} \dagger^{\alpha\beta\chi}$	0	0	0

$\omega_2^{\#1}$ $f_2^{\#1}$ $\omega_2^{\#1}$ $\alpha_{\beta \gamma}$	0	0	0
$f_2^{\#1}_2 \alpha \beta$	0	0	0
$\omega_2^{\#1}{}_+\alpha\beta$	$-\frac{3k^2r_3}{2}$	0	0
•	$\omega_{2}^{\#1} + ^{\alpha \beta}$	$f_{2}^{\#1} + \alpha \beta$	$\omega_{2}^{\#1} +^{lphaeta\chi}$

	$\omega_0^{\sharp 1}$	$f_{0^{+}}^{#1}$	$f_{0^{+}}^{#2}$	$\omega_0^{\#1}$
$\omega_{0}^{\#1}$ †	$t_3$	$-i \sqrt{2} kt_3$	0	0
$f_{0}^{#1}\dagger$	$i\sqrt{2} kt_3$	$2k^2t_3$	0	0
$f_{0}^{#2}$ †	0	0	0	0
$\omega_{0}^{\#1}$ †	0	0	0	$t_2$

$\sigma_{0}^{\#1}$	0	0	0	$\frac{1}{t_2}$
$\tau_{0}^{\#2}$	0	0	0	0
$\tau_0^{\#1}$	$-\frac{i\sqrt{2}k}{(1+2k^2)^2t_3}$	$\frac{2k^2}{(1+2k^2)^2t_3}$	0	0
$\sigma_0^{\#1}$	$\frac{1}{(1+2k^2)^2t_3}$	$\frac{i\sqrt{2}k}{(1+2k^2)^2t_3}$	0	0
·	$\sigma_{0}^{\#1}$ †	$ au_0^{\#1}$ $\dagger$	$\tau_0^{\#2} +$	$\sigma_{0^-}^{\#1}  \dagger$

Source constraints	
SO(3) irreps	#
$\tau_{0^{+}}^{\#2} == 0$	1
$\tau_{0^{+}}^{\#1} - 2 \bar{\imath} k \sigma_{0^{+}}^{\#1} == 0$	1
$\tau_{1}^{\#2\alpha} + 2 i k \sigma_{1}^{\#2\alpha} == 0$	3
$\tau_{1}^{\#1\alpha} == 0$	3
$\tau_{1+}^{\#1}{}^{\alpha\beta} + i k \sigma_{1+}^{\#2}{}^{\alpha\beta} == 0$	3
$\sigma_2^{\#1\alpha\beta\chi} == 0$	5
$\tau_{2^{+}}^{\#1\alpha\beta} == 0$	5
Total #:	21



Unitarity conditions  $r_3 < 0 \&\& (r_5 < -\frac{r_3}{2} || r_5 > -2 r_3) || r_3 > 0 \&\& -2 r_3 < r_5 < -\frac{r_3}{2}$ 

(No massive particles)