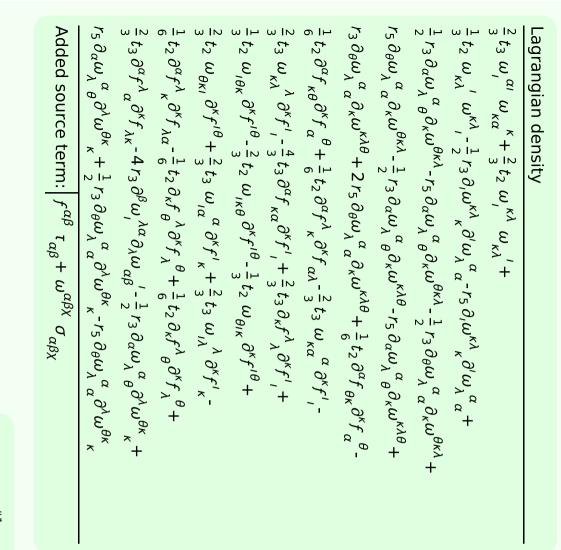
	$\sigma_{1^{+}lphaeta}^{\sharp1}$	$\sigma^{\#2}_{1^+lphaeta}$	$ au_{1}^{\#1}{}_{lphaeta}$	$\sigma_{1}^{\#1}{}_{lpha}$	$\sigma_{1}^{\#2}{}_{lpha}$	$\tau_{1}^{\#1}{}_{\alpha}$	τ ₁ - α
$\sigma_{1}^{\#1} \dagger^{\alpha\beta}$	$\frac{1}{k^2(2r_3+r_5)}$	$-\frac{\sqrt{2}}{k^2(1+k^2)(2r_3+r_5)}$	$-\frac{i\sqrt{2}}{k(1+k^2)(2r_3+r_5)}$	0	0	0	0
$\sigma_{1}^{\#2} \dagger^{\alpha\beta}$	$-\frac{\sqrt{2}}{k^2(1+k^2)(2r_3+r_5)}$	$\frac{3k^2(2r_3+r_5)+2t_2}{(k+k^3)^2(2r_3+r_5)t_2}$	$\frac{i(3k^2(2r_3+r_5)+2t_2)}{k(1+k^2)^2(2r_3+r_5)t_2}$	0	0	0	0
$\tau_{1}^{\#1} \dagger^{\alpha\beta}$	$\frac{i \sqrt{2}}{k(1+k^2)(2r_3+r_5)}$	$-\frac{i(3k^2(2r_3+r_5)+2t_2)}{k(1+k^2)^2(2r_3+r_5)t_2}$	$\frac{3k^2(2r_3+r_5)+2t_2}{(1+k^2)^2(2r_3+r_5)t_2}$	0	0	0	0
$\sigma_1^{\!\#\!1}\dagger^lpha$	0	0	0	$\frac{2}{k^2(r_3+2r_5)}$	$\frac{2\sqrt{2}}{k^2(1+2k^2)(r_3+2r_5)}$	0	$\frac{4i}{k(1+2k^2)(r_3+2r_5)}$
$\sigma_1^{\#2} \dagger^{\alpha}$	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	$\frac{i\sqrt{2}(3k^2(r_3+2r_5)+4t_3)}{k(1+2k^2)^2(r_3+2r_5)t_3}$
$\tau_1^{\#1} \uparrow^{\alpha}$	0	0	0	0	0	0	0
$\tau_1^{\#2} \uparrow^{\alpha}$	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	$\frac{6k^2(r_3+2r_5)+8t_3}{(1+2k^2)^2(r_3+2r_5)t_3}$

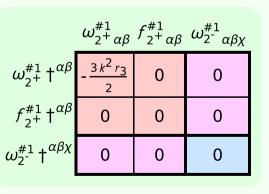
$\omega_{0^{ ext{-}1}}^{\#1}\dagger$	$f_{0+}^{#2}$ †	$f_{0+}^{#1}$ †	$\omega_{0^{+}}^{*1}$ †	
0	0	$i\sqrt{2}kt_3$	t_3	$\omega_0^{\#1}$
0	0	$2 k^2 t_3$	$-\bar{i}\sqrt{2}kt_3$	$f_{0}^{#1}$
0	0	0	0	$f_{0+}^{#2}$
t_2	0	0	0	$\omega_{0}^{\#1}$

	$\omega_{1^{+}lphaeta}^{\sharp1}$	$\omega_{1}^{\#2}{}_{\alpha\beta}$	$f_{1^{+}\alpha\beta}^{\#1}$	$\omega_{1^{-}\ lpha}^{$ #1}	$\omega_{1-\alpha}^{\#2}$	$f_{1-\alpha}^{\#1}$	$f_{1-\alpha}^{\#2}$
$\omega_{1}^{\#1}\dagger^{lphaeta}$	$k^2 (2r_3 + r_5) + \frac{2t_2}{3}$	$\frac{\sqrt{2} t_2}{3}$	$\frac{1}{3}i\sqrt{2}kt_2$	0	0	0	0
$\omega_{1}^{\#2}\dagger^{lphaeta}$	$\frac{\sqrt{2} t_2}{3}$	<u>t2</u> 3	<u>i kt2</u> 3	0	0	0	0
$f_{1}^{\#1}\dagger^{\alpha\beta}$	$-\frac{1}{3}\bar{l}\sqrt{2}kt_2$	$-\frac{1}{3}ikt_2$	$\frac{k^2t_2}{3}$	0	0	0	0
$\omega_1^{\sharp_1}\dagger^{lpha}$	0	0	0	$k^2 \left(\frac{r_3}{2} + r_5\right) + \frac{2t_3}{3}$	$-\frac{\sqrt{2} t_3}{3}$	0	$-\frac{2}{3} \bar{l} k t_3$
$\omega_1^{#2} \dagger^{\alpha}$	0	0	0	$-\frac{\sqrt{2}\ t_3}{3}$	<u>t3</u> 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>2 i kt</u> 3 3	$-\frac{1}{3}\bar{l}\sqrt{2}kt_3$	0	$\frac{2k^{2}t_{3}}{3}$

Source constraints				
SO(3) irreps	#			
$\tau_{0^{+}}^{\#2} == 0$	1			
$\sigma_{0+}^{\#1} - 2 i k \sigma_{0+}^{\#1} == 0$	1			
$\tau_1^{\#2\alpha} + 2ik \sigma_1^{\#2\alpha} == 0$	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			

$\sigma_{0^{ ext{-}}}^{\sharp 1}$ †	$\tau_{0^{+}}^{#2}$ †	$\tau_{0}^{\#1}$ †	$\sigma_{0^{+}}^{*1}$ †	
0	0	$\frac{i\sqrt{2}k}{(1+2k^2)^2t_3}$	$\frac{1}{(1+2k^2)^2t_3}$	$\sigma_{0^{+}}^{*1}$
0	0	$\frac{2k^2}{(1+2k^2)^2t_3}$	$-\frac{i\sqrt{2}k}{(1+2k^2)^2t_3}$	$ au_0^{\#1}$
0	0	0	0	$t_0^{\#2}$
$\frac{1}{t_2}$	0	0	0	$\sigma_{0}^{\#1}$



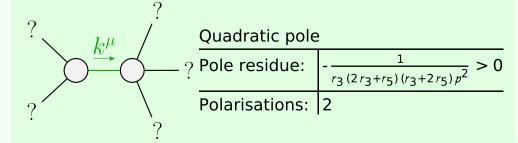


$$\sigma_{2^{+} \alpha \beta}^{\#1} \tau_{2^{+} \alpha \beta}^{\#1} \sigma_{2^{-} \alpha \beta \chi}^{\#1}$$

$$\sigma_{2^{+}}^{\#1} \uparrow^{\alpha \beta} - \frac{2}{3 k^{2} r_{3}} \quad 0 \quad 0$$

$$\tau_{2^{+}}^{\#1} \uparrow^{\alpha \beta} \quad 0 \quad 0 \quad 0$$

$$\sigma_{2^{-}}^{\#1} \uparrow^{\alpha \beta \chi} \quad 0 \quad 0 \quad 0$$



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)