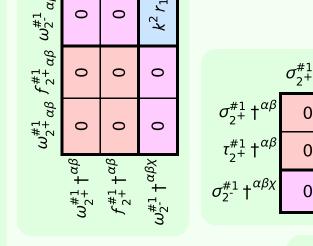


0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	$-k^2 r_1$	0	0	0
$\frac{1}{3}\bar{l}\sqrt{2}kt_2$	<i>ikt</i> 2 3	$\frac{k^2 t_2}{3}$	0	0	0	0
$\frac{\sqrt{2} t_2}{3}$	t 2 3	$-\frac{1}{3}\bar{l}kt_2$	0	0	0	0
$\frac{2t_2}{3}$	$\frac{\sqrt{2} t_2}{3}$	- <u>1</u> i	0	0	0	0
$\omega_1^{\#1} + ^{lphaeta}$	$\omega_1^{\#2} + ^{lphaeta}$	$f_{1}^{#1} + \alpha \beta$	$\omega_{1}^{\#1} +^{\alpha}$	$\omega_1^{\#2} \dagger^{lpha}$	$f_{1}^{#1} \dagger^{lpha}$	$f_1^{\#2} +^{\alpha}$
	$+\alpha \beta$ $\frac{2t_2}{3}$ $\frac{\sqrt{2}t_2}{3}$ $\frac{1}{3}$ i $\sqrt{2}$ kt_2 0 0	$+\alpha\beta$ $\frac{2t_2}{3}$ $\frac{\sqrt{2}t_2}{3}$ $\frac{1}{3}\bar{l}\sqrt{2}kt_2$ 0 0 0 0	$+\alpha\beta$ $\frac{2t_2}{3}$ $\frac{\sqrt{2}t_2}{3}$ $\frac{1}{3}i\sqrt{2}kt_2$ 0 0 0 0 0 $+\alpha\beta$ $\frac{\sqrt{2}t_2}{3}$ $\frac{t_2}{3}$ $\frac{ikt_2}{3}$ 0 0 0 0 $+\alpha\beta$ $\frac{1}{3}i\sqrt{2}kt_2$ $\frac{1}{3}ikt_2$ $\frac{k^2t_2}{3}$ 0 0 0 0	$ \begin{vmatrix} \alpha \beta & \frac{2t_2}{3} & \frac{\sqrt{2} t_2}{3} & \frac{1}{3} i \sqrt{2} k t_2 & 0 & 0 & 0 \\ +\alpha \beta & \frac{\sqrt{2} t_2}{3} & \frac{t_2}{3} & \frac{i k t_2}{3} & 0 & 0 & 0 \\ +\alpha \beta & -\frac{1}{3} i \sqrt{2} k t_2 & -\frac{1}{3} i k t_2 & \frac{k^2 t_2}{3} & 0 & 0 & 0 \\ +\alpha & 0 & 0 & 0 & -k^2 r_1 & 0 & 0 \end{vmatrix} $		

$\tau_{1}^{\#2}$	0	0	0	0	0	0	0
$\tau_{1}^{\#1}{}_{\alpha}$	0	0	0	0	0	0	0
$\sigma_{1}^{\#2}{}_{lpha}$	0	0	0	0	0	0	0
$\sigma_{1}^{\#1}{}_{lpha}$	0	0	0	$-\frac{1}{k^2 r_1}$	0	0	0
$\tau_1^{\#1}{}_+\alpha\beta$	$\frac{3 i \sqrt{2} k}{(3+k^2)^2 t_2}$	$\frac{3ik}{(3+k^2)^2t_2}$	$\frac{3k^2}{(3+k^2)^2t_2}$	0	0	0	0
$\sigma_1^{\#2}$	$\frac{3\sqrt{2}}{(3+k^2)^2t_2}$	$\frac{3}{(3+k^2)^2 t_2}$	$-\frac{3ik}{(3+k^2)^2t_2}$	0	0	0	0
$\sigma_{1}^{\#1}{}_{\alpha\beta}$	$\frac{6}{(3+k^2)^2 t_2}$	$\frac{3\sqrt{2}}{(3+k^2)^2t_2}$	$-\frac{3i\sqrt{2}k}{(3+k^2)^2t_2}$	0	0	0	0
	$\sigma_{1}^{\#1} + \alpha^{eta}$	$\sigma_{1}^{\#2} + \alpha^{\beta}$	$\tau_{1}^{\#1} + \alpha^{\beta}$	$\sigma_{1}^{\#1} +^{\alpha}$	$\sigma_{1}^{\#2} +^{\alpha}$	$\tau_{1}^{\#1} +^{\alpha}$	$\tau_1^{\#2} +^{\alpha}$

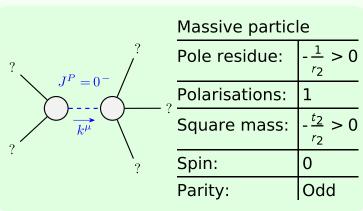
Source constraints				
SO(3) irreps	#			
$\tau_{0+}^{\#2} == 0$	1			
$\tau_{0+}^{\#1} == 0$	1			
$\sigma_{0^+}^{\#1} == 0$	1			
$\tau_{1}^{\#2\alpha} == 0$	3			
$\tau_{1}^{\#1\alpha} == 0$	3			
$\sigma_1^{\#2\alpha} == 0$	3			
$\tau_{1+}^{\#1\alpha\beta} + \bar{\imath}k\sigma_{1+}^{\#1\alpha\beta} == 0$	3			
$\sigma_{1+}^{\#1\alpha\beta} = \sigma_{1+}^{\#2\alpha\beta}$	3			
$\tau_{2+}^{\#1\alpha\beta} == 0$	5			
$\sigma_{2^{+}}^{\#1\alpha\beta} == 0$	5			
Total #:	28			



	$\sigma_{2^{+}\alpha\beta}^{\#1}$	$ au_2^{\#1}{}_{lphaeta}$	$\sigma_{2-\alpha\beta\chi}^{\#1}$
$\sigma_{2}^{\#1}\dagger^{lphaeta}$	0	0	0
$ au_{2}^{\#1} \dagger^{lphaeta}$	0	0	0
$\sigma_2^{\#1} \dagger^{lphaeta\chi}$	0	0	$\frac{1}{k^2 r_1}$

$\omega_{0^{+}}^{\#1} f_{0^{+}}^{\#1} f_{0^{+}}^{\#2} \omega_{0^{-}}^{\#1}$							
$\omega_{0^+}^{\#1}\dagger$	0	0	0	0			
$f_{0^{+}}^{#1}\dagger$	0	0	0	0			
$f_{0}^{#2}$ †	0	0	0	0			
$\omega_0^{\#1}$ †	0	0	0	$k^2 r_2 + t_2$			

_	$\sigma_{0^{+}}^{#1}$	$\tau_{0}^{\#1}$	$ au_{0}^{\#2}$	$\sigma_0^{\#1}$
$\sigma_{0^+}^{\#1}\dagger$	0	0	0	0
$\tau_{0^{+}}^{\#1}$ †	0	0	0	0
$ au_{0^{+}}^{\#2} \dagger$	0	0	0	0
$\sigma_0^{\sharp 1}$ †	0	0	0	$\frac{1}{k^2 r_2 + t_2}$



 $\frac{\text{Unitarity conditions}}{r_2 < 0 \&\& t_2 > 0}$

(No massless particles)