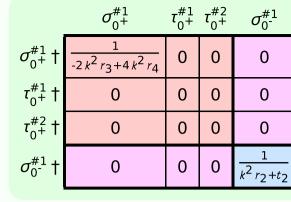
$ au_{1}^{\#2}$	0	0	0	0	0	0	0
$\tau_{1}^{\#1}{}_{\alpha}$	0	0	0	0	0	0	0
$\sigma_{1}^{\#2}$	0	0	0	0	0	0	0
$\sigma_{1^{-}}^{\#1}{}_{\alpha} \; \sigma_{1^{-}}^{\#2}{}_{\alpha} \; t_{1^{-}}^{\#1}{}_{\alpha} \; t_{1^{-}}^{\#2}{}_{\alpha}$	0	0	0	0	0	0	0
$\tau_{1}^{\#1}_{\alpha\beta}$	$-\frac{i\sqrt{2}}{k(1+k^2)(2r_3-r_4)}$	$\frac{i(k^2(6r_3-3r_4)+2t_2)}{k(1+k^2)^2(2r_3-r_4)t_2}$	$\frac{1}{r_3 - \frac{r_4}{2}} + \frac{3k^2}{t_2}$ $\frac{r_3 - \frac{r_4}{2}}{(1 + k^2)^2}$	0	0	0	0
$\sigma_{1}^{\#2}{}_{\alpha\beta}$	$-\frac{\sqrt{2}}{k^2(1+k^2)(2r_3-r_4)}$	$\frac{k^2 (6r_3 - 3r_4) + 2t_2}{(k+k^3)^2 (2r_3 - r_4)t_2}$	$-\frac{i(k^2(6r_3-3r_4)+2t_2)}{k(1+k^2)^2(2r_3-r_4)t_2}$	0	0	0	0
$\sigma_{1}^{\#1}_{\alpha\beta}$	$\frac{1}{k^2(2r_3-r_4)}$	$-\frac{\sqrt{2}}{k^2(1+k^2)(2r_3-r_4)}$	$\frac{i\sqrt{2}}{k(1+k^2)(2r_3-r_4)}$	0	0	0	0
	$J_1^{#1} + \alpha \beta$	$\sigma_{1}^{#2} + \alpha \beta$	$ au_1^{\#1} + ^{lphaeta}$	$\sigma_{1}^{\#1} \dagger^{\alpha}$	$\sigma_1^{\#2} +^{\alpha}$	$\tau_{1}^{\#1} +^{\alpha}$	$t_1^{\#2} \dagger^{\alpha}$

Lagrangian density $\frac{2}{3}t_2 \omega_{\kappa^{\lambda}}^{\ \ \kappa_{\lambda^{\prime}}^{\ \ } + \frac{1}{3}t_2 \omega_{\kappa^{\lambda}}^{\ \ \prime} \omega_{\kappa^{\lambda}}^{\ \ \prime} + f^{\alpha\beta} \tau_{\alpha\beta} + \omega^{\alpha\beta\chi} \sigma_{\alpha\beta\chi}^{\ \ \prime} + \frac{1}{3}t_2 \omega_{\kappa^{\lambda}}^{\ \ \prime} + f^{\alpha\beta} \tau_{\alpha\beta}^{\ \ \prime} + \omega^{\alpha\beta\chi} \sigma_{\alpha\beta\chi}^{\ \ \prime} + \frac{2}{3}t_2 \omega_{\alpha\beta}^{\ \ \prime} + \frac{1}{3}t_2 \omega_{\beta}^{\ \ \prime} + \frac{1}{9}t_2 \partial_{\beta}^{\ \ \prime} + \frac{1}{9}t_2 \omega_{\beta\kappa}^{\ \ \prime} +$	$\frac{3}{3} \sum_{\sigma k l} \frac{\partial k l}{\partial x} \int_{\alpha \beta l} \frac{\partial k l}{\partial x} \int_{\alpha k l} \frac{\partial k l}{\partial$
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		ı					
$f_{1^-}^{#2}$	0	0	0	0	0	0	0
$f_{1^-}^{\#1}$	0	0	0	0	0	0	0
$\omega_{1^-}^{\#2}$	0	0	0	0	0	0	0
$\omega_{1^{-}}^{\#1}{}_{\alpha}$	0	0	0	0	0	0	0
$f_{1}^{\#1}$	$\frac{1}{3}\bar{l}\sqrt{2}kt_2$	<i>ikt</i> 2 3	$\frac{k^2 t_2}{3}$	0	0	0	0
$\omega_1^{\#2}$	$\frac{\sqrt{2} t_2}{3}$	t 2 3	$-\frac{1}{3}$ \bar{l} kt_2	0	0	0	0
$\omega_{1}^{\#1}$	² (2	$\frac{\sqrt{2}t_2}{3}$	$-\frac{1}{3}\bar{l}\sqrt{2}kt_2$	0	0	0	0
	$\omega_1^{#1} + \alpha^{\beta}$	$\omega_1^{\#2} + \alpha^{\beta}$	$f_{1+}^{#1} +^{\alpha \beta}$	$\omega_{1}^{\#1} +^{\alpha}$	$\omega_1^{\#2} +^{\alpha}$	$f_{1}^{\#1} +^{lpha}$	$f_1^{\#2} + \alpha$



3

5

Source constraints

SO(3) irreps

 $\tau_{0^{+}}^{\#2} == 0$

 $\tau_{0^{+}}^{\#1} == 0$

 $\tau_1^{\#2\alpha} == 0$

 $\tau_1^{\#1}{}^{\alpha} == 0$

 $\sigma_1^{\#_2\alpha} == 0$

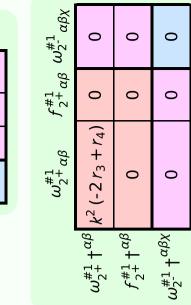
 $\sigma_1^{\#1\alpha} == 0$

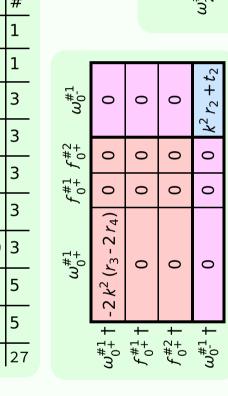
 $\overline{\sigma_{2}^{\#1}\alpha\beta\chi}=0$

 $\tau_{2^{+}}^{\#1\,\alpha\beta} == 0$

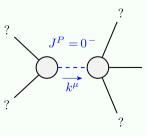
Total #:

 $\tau_{1+}^{\#1\alpha\beta} + ik \sigma_{1+}^{\#2\alpha\beta} == 0$ 3





	$\sigma_{2^{+}\alpha\beta}^{\#1}$	$ au_2^{\#1}{}_{lphaeta}$	$\sigma_{2}^{\#1}{}_{\alpha\beta\chi}$
$\sigma_{2}^{\#1} \dagger^{\alpha\beta}$	$\frac{1}{k^2 (-2r_3+r_4)}$	0	0
$\tau_{2}^{\#1} \dagger^{\alpha\beta}$	0	0	0
$\sigma_{2}^{\#1} \dagger^{lphaeta\chi}$	0	0	0



	Massive particle			
?	Pole residue:	$-\frac{1}{r_2} > 0$		
$J^P = 0^-$	Polarisations:	1		
k^{μ}	Square mass:	$-\frac{t_2}{r_2} > 0$		
?	Spin:	0		
	Parity:	Odd		

(No massless particles)