

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

	$\sigma_{1^{+}lphaeta}^{\sharp1}$	$\sigma_{1^{+}\alpha\beta}^{\#2}$	$\sigma_{1^- \; lpha}^{\# 1}$	$\sigma_{1}^{\#2}$ $\alpha$
$\sigma_{1}^{\#1}\dagger^{\alpha\beta}$	$\frac{1}{k^2(2r_3+r_5)}$	0	0	0
$\sigma_{1}^{\#2} \dagger^{\alpha\beta}$	0	0	0	0
$\sigma_{1}^{\#1}\dagger^{lpha}$	0	0	$\frac{2}{k^2(r_3+2r_5)}$	0
$\sigma_{1}^{#2} \dagger^{\alpha}$	0	0	0	0

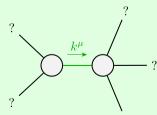
2 α	
)	
)	μ
)	$\omega_2^{\dagger}$
)	

	$\sigma_{2^{+}\alpha\beta}^{\#1}$	$\sigma_{2}^{\#1}{}_{\alpha\beta\chi}$
$\sigma_{2}^{\#1} \dagger^{\alpha\beta}$	$-\frac{2}{3k^2r_3}$	0
$\sigma_2^{\sharp 1} \dagger^{\alpha\beta\chi}$	0	0

	$\omega_{2^{+}\alpha\beta}^{\#1}$	$\omega_2^{\sharp 1}{}_{\alpha\beta\chi}$
$\omega_{2}^{\#1} \dagger^{\alpha\beta}$	$-\frac{3k^2r_3}{2}$	0
$\omega_2^{\#1} \dagger^{lphaeta\chi}$	0	0

	$\omega_{1}^{\#1}{}_{lphaeta}$	$\omega_{1}^{\#2}{}_{\alpha\beta}$	$\omega_{1^{-}\ lpha}^{\#1}$	$\omega_{1}^{#2}$ $\alpha$
$\omega_{1}^{\#1} \dagger^{\alpha\beta}$	$k^2 (2 r_3 + r_5)$	0	0	0
$\omega_1^{\#2} \dagger^{\alpha\beta}$	0	0	0	0
$\omega_1^{\sharp_1} \dagger^{lpha}$	0	0	$\frac{1}{2} k^2 (r_3 + 2 r_5)$	0
$\omega_1^{\#2} \dagger^{\alpha}$	0	0	0	0

Source const	traints
SO(3) irreps	#
$\sigma_0^{\#1} == 0$	1
$\sigma_1^{\#2\alpha} == 0$	3
$\sigma_{1+}^{\#2\alpha\beta} == 0$	3
$\sigma_{2^{-}}^{\#1}{}^{\alpha\beta\chi}=0$	5
Total #:	12



## Quadratic pole

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Polarisations: 2

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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)