

Wave operator and propagator

$\sigma_1^{\#1} \dagger \alpha\beta$	$\frac{2(t_1+t_2)}{3t_1t_2}$	$\frac{\sqrt{2}(t_1-2t_2)}{3(1+k^2)t_1t_2}$	$\frac{i\sqrt{2}k(t_1-2t_2)}{3(1+k^2)t_1t_2}$	$\sigma_1^{\#1} \alpha$	$\sigma_1^{\#2} \alpha$	$\tau_1^{\#1} \alpha$	$\tau_1^{\#2} \alpha$
$\sigma_1^{\#2} \dagger \alpha\beta$	$\frac{\sqrt{2}(t_1-2t_2)}{3(1+k^2)t_1t_2}$	$\frac{t_1+4t_2}{3(1+k^2)^2t_1t_2}$	$\frac{ik(t_1+4t_2)}{3(1+k^2)^2t_1t_2}$	0	0	0	0
$\tau_1^{\#1} \dagger \alpha\beta$	$-\frac{i\sqrt{2}k(t_1-2t_2)}{3(1+k^2)t_1t_2}$	$-\frac{ik(t_1+4t_2)}{3(1+k^2)^2t_1t_2}$	$\frac{k^2(t_1+4t_2)}{3(1+k^2)^2t_1t_2}$	0	0	0	0
$\sigma_1^{\#1} \dagger \alpha$	0	0	0	0	$\frac{\sqrt{2}}{t_1+2k^2t_1}$	0	$\frac{2ik}{t_1+2k^2t_1}$
$\sigma_1^{\#2} \dagger \alpha$	0	0	0	$\frac{\sqrt{2}}{t_1+2k^2t_1}$	$\frac{2k^2t_1+t_1}{(t_1+2k^2t_1)^2}$	0	$\frac{i\sqrt{2}k(2k^2t_1+t_1)}{(t_1+2k^2t_1)^2}$
$\tau_1^{\#1} \dagger \alpha$	0	0	0	0	0	0	0
$\tau_1^{\#2} \dagger \alpha$	0	0	0	$-\frac{2ik}{t_1+2k^2t_1}$	$-\frac{i\sqrt{2}k(2k^2t_1+t_1)}{(t_1+2k^2t_1)^2}$	0	$\frac{2k^2(2k^2t_1+t_1)}{(t_1+2k^2t_1)^2}$

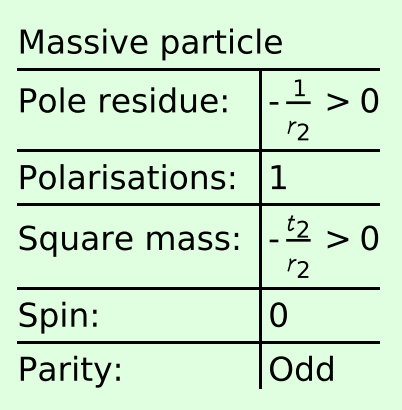
$\omega_{2^+}^{\#1} \dagger^{\alpha\beta}$	$f_{2^+}^{\#1} \dagger^{\alpha\beta}$	$\omega_{2^-}^{\#1} \alpha\beta\chi$
$\omega_{2^+}^{\#1} \dagger^{\alpha\beta}$	$\frac{t_1}{2}$	$-\frac{i k t_1}{\sqrt{2}}$
$f_{2^+}^{\#1} \dagger^{\alpha\beta}$	$\frac{i k t_1}{\sqrt{2}}$	$k^2 t_1$
$\omega_{2^-}^{\#1} \dagger^{\alpha\beta\chi}$	0	0
	$\sigma_{2^+}^{\#1} \alpha\beta$	$\tau_{2^+}^{\#1} \alpha\beta$
$\sigma_{2^+}^{\#1} \dagger^{\alpha\beta}$	$\frac{2}{(1+2k^2)^2 t_1}$	$-\frac{2i \sqrt{2} k}{(1+2k^2)^2 t_1}$
$\tau_{2^+}^{\#1} \dagger^{\alpha\beta}$	$\frac{2i \sqrt{2} k}{(1+2k^2)^2 t_1}$	$\frac{4k^2}{(1+2k^2)^2 t_1}$
$\sigma_{2^-}^{\#1} \dagger^{\alpha\beta\chi}$	0	0
		$\sigma_{2^-}^{\#1} \alpha\beta\chi$
		$\frac{2}{2k^2 r_1 + t_1}$

Source constraints/gauge generators

SO(3) irreps	Multiplicities
$\tau_{0^+}^{\#2} == 0$	1
$\tau_{0^+}^{\#1} - 2 i k \sigma_{0^+}^{\#1} == 0$	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
$\tau_{2^+}^{\#1\alpha\beta} - 2 i k \sigma_{2^+}^{\#1\alpha\beta} == 0$	5
Total constraints:	16

$\sigma_0^{#1} \dagger$	$-\frac{1}{(1+2k^2)^2 t_1}$	$\frac{i\sqrt{2}k}{(1+2k^2)^2 t_1}$	0	0	$\omega_0^{#1} \dagger$	$-t_1$	$i\sqrt{2}kt_1$	0	$\omega_0^{#1}$
$\tau_0^{#1} \dagger$	$-\frac{i\sqrt{2}k}{(1+2k^2)^2 t_1}$	$-\frac{2k^2}{(1+2k^2)^2 t_1}$	0	0	$f_0^{#1} \dagger$	$-i\sqrt{2}kt_1$	$-2k^2 t_1$	0	$f_0^{#2}$
$\tau_0^{#2} \dagger$	0	0	0	0	$\omega_0^{#1} \dagger$	0	0	0	$\omega_0^{#1}$
$\sigma_0^{#1}$	0	0	0	$\frac{1}{k^2 r_2 + t_2}$	$\omega_0^{#1} \dagger$	0	0	0	$k^2 r_2 + t_2$

Massive and massless spectra



Unitarity conditions

$$r_1 < 0 \ \&\& \ r_2 < 0 \ \&\& \ t_1 > 0 \ \&\& \ t_2 > 0$$