	$\sigma_{1^-}^{\#2}{}_{\alpha}$	$\tau_{1^-}^{\#1}{}_{\alpha}$	$\tau_{1^-}^{\#2}{}_{\alpha}$
$\sigma_{1^+}^{\#1}{}_{\alpha\beta}\,\dagger^{\alpha\beta}$	0	0	0
$\sigma_{1^+}^{\#2}{}_{\alpha\beta}\,\dagger^{\alpha\beta}$	0	0	0
$\tau_{1^+}^{\#1}{}_{\alpha\beta}\,\dagger^{\alpha\beta}$	0	0	0
$\sigma_{1^-}^{\#1}{}_{\alpha}\,\dagger^{\alpha}$	0	0	$-\frac{2\,i\,k\,(t_1-2\,t_3)}{(1+2\,k^2)\,(3\,t_1\,t_3+2\,k^2\,(r_1+r_5)\,(t_1+t_3))}$
$\sigma_{1^-}^{\#2}{}_{\alpha}\,\dagger^{\alpha}$	0	0	$\frac{i\,\sqrt{2}\,k\,(6\,k^2\,(r_1+r_5)+t_1+4\,t_3)}{(1+2\,k^2)^2\,(3\,t_1\,t_3+2\,k^2\,(r_1+r_5)\,(t_1+t_3))}$
$\tau_{1^-}^{\#1}{}_{\alpha}\,\dagger^{\alpha}$	0	0	0
$\tau_{1^-}^{\#2}{}_{\alpha}\,\dagger^{\alpha}$	0	0	$\frac{2\,k^2\,(6\,k^2\,(r_1+r_5)+t_1+4\,t_3)}{(1+2\,k^2)^2\,(3\,t_1\,t_3+2\,k^2\,(r_1+r_5)\,(t_1+t_3))}$

	$\sigma_{1^+}^{\#1}{}_{\alpha\beta}$	$\sigma_{1^+}^{\#2}{}_{\alpha\beta}$	$\tau_{1^+}^{\#1}{}_{\alpha\beta}$	$\sigma_{1^-}^{\#1}{}_{\alpha}$
$\sigma_{1^+}^{\#1}{}_{\alpha\beta}\,\dagger^{\alpha\beta}$	0	$-\frac{\sqrt{2}}{t_1+k^2\,t_1}$	$-\frac{i\,\sqrt{2}\,k}{t_1+k^2\,t_1}$	0
$\sigma_{1^+}^{\#2}{}_{\alpha\beta}\,\dagger^{\alpha\beta}$	$-\frac{\sqrt{2}}{t_1+k^2\,t_1}$	$\frac{-2\,k^2\,(2\,r_1+r_5)+t_1}{(1+k^2)^2\,t_1{}^2}$	$\frac{-2\,i\,k^3\,(2\,r_1+r_5)+i\,k\,t_1}{(1+k^2)^2\,t_1{}^2}$	$\frac{\sqrt{2}\,(t_1-2\,t_3)}{(1+2\,k^2)\,(3\,t_1\,t_3+2\,k^2\,(r_1+r_5)\,(t_1+t_3))}$
$\tau_{1^+}^{\#1}{}_{\alpha\beta}\,\dagger^{\alpha\beta}$	$\frac{i\,\sqrt{2}\,k}{t_1+k^2\,t_1}$	$\frac{i\,(2\,k^3\,(2\,r_1+r_5)-k\,t_1)}{(1+k^2)^2\,t_1{}^2}$	$\frac{-2\,k^4\,(2\,r_1+r_5)+k^2\,t_1}{(1+k^2)^2\,t_1{}^2}$	$-\frac{2\,i\,k\,(6\,k^2\,(r_1+r_5)+t_1+4\,t_3)}{(1+2\,k^2)^2\,(3\,t_1\,t_3+2\,k^2\,(r_1+r_5)\,(t_1+t_3))}$
$\sigma_{1^-}^{\#1}{}_{\alpha}\,\dagger^{\alpha}$	0	0	0	$\frac{2\,(t_1+t_3)}{3\,t_1\,t_3+2\,k^2\,(r_1+r_5)\,(t_1+t_3)}$
$\sigma_{1^-}^{\#2}{}_{\alpha}\,\dagger^{\alpha}$	0	0	0	$\frac{\sqrt{2}\,(t_1-2\,t_3)}{(1+2\,k^2)\,(3\,t_1\,t_3+2\,k^2\,(r_1+r_5)\,(t_1+t_3))}$
$\tau_{1^-}^{\#1}{}_{\alpha}\,\dagger^{\alpha}$	0	0	0	0
$\tau_{1^-}^{\#2}{}_{\alpha}\,\dagger^{\alpha}$	0	0	0	$\frac{2\,i\,k\,(t_1-2\,t_3)}{(1+2\,k^2)\,(3\,t_1\,t_3+2\,k^2\,(r_1+r_5)\,(t_1+t_3))}$

	$\sigma_{0^+}^{\#1}$	$\tau_{0^+}^{\#1}$	$\tau_{0^+}^{\#2}$	$\sigma_{0^-}^{\#1}$
$\sigma_{0^+}^{\#1}\,\dagger$	$\frac{1}{(1+2\,k^2)^2\,t_3}$	$-\frac{i\,\sqrt{2}\,k}{(1+2\,k^2)^2\,t_3}$	0	0
$\tau_{0^+}^{\#1}\,\dagger$	$\frac{i\,\sqrt{2}\,k}{(1+2\,k^2)^2\,t_3}$	$\frac{2\,k^2}{(1+2\,k^2)^2\,t_3}$	0	0
$\tau_{0^+}^{\#2}\,\dagger$	0	0	0	0
$\sigma_{0^-}^{\#1}\,\dagger$	0	0	0	$-\frac{1}{t_1}$

Source constraints	#
SO(3) irreps	1
$\tau_{0^+}^{\#2} == 0$	
$\tau_{0^+}^{\#1} - 2\,i\,k\,\sigma_{0^+}^{\#1} == 0$	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 #:	16

	$\omega_{2^+}^{\#1}{}_{\alpha\beta}$	$f_{2^+}^{\#1}{}_{\alpha\beta}$	$\omega_{2^-}^{\#1}{}_{\alpha\beta\chi}$
$\omega_{2^+}^{\#1}\,\dagger^{\alpha\beta}$	$\frac{t_1}{2}$	$-\frac{i\,k\,t_1}{\sqrt{2}}$	0
$f_{2^+}^{\#1}\,\dagger^{\alpha\beta}$	$\frac{i\,k\,t_1}{\sqrt{2}}$	$k^2\,t_1$	0
$\omega_{2^-}^{\#1}\,\dagger^{\alpha\beta\chi}$	0	0	$k^2\,r_1+\frac{t_1}{2}$

	$\omega_{0^+}^{\#1}$	$f_{0^+}^{\#1}$	$f_{0^+}^{\#2}$	$\omega_{0^-}^{\#1}$
$\omega_{0^+}^{\#1}\,\dagger$	t_3	$-i\,\sqrt{2}\,k\,t_3$	0	0
$f_{0^+}^{\#1}\,\dagger$	$i\,\sqrt{2}\,k\,t_3$	$2\,k^2\,t_3$	0	0
$f_{0^+}^{\#2}\,\dagger$	0	0	0	0
$\omega_{0^-}^{\#1}\,\dagger$	0	0	0	$-t_1$

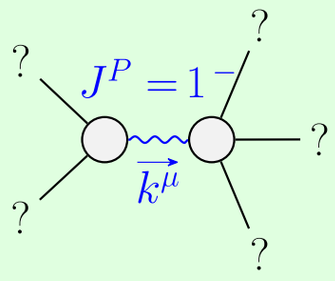
	$\sigma_{2^+}^{\#1}{}_{\alpha\beta}$	$\tau_{2^+}^{\#1}{}_{\alpha\beta}$	$\sigma_{2^-}^{\#1}{}_{\alpha\beta\chi}$
$\sigma_{2^+}^{\#1}\,\dagger^{\alpha\beta}$	$\frac{2}{(1+2\,k^2)^2\,t_1}$	$-\frac{2\,i\,\sqrt{2}\,k}{(1+2\,k^2)^2\,t_1}$	0
$\tau_{2^+}^{\#1}\,\dagger^{\alpha\beta}$	$\frac{2\,i\,\sqrt{2}\,k}{(1+2\,k^2)^2\,t_1}$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

Lagrangian density

$$-\frac{1}{3}t_1\,\omega_{\prime}{}^{\alpha\prime}{}_{\prime}\,\omega_{\kappa\alpha}{}^{\kappa}+\frac{2}{3}t_3\,\omega_{\prime}{}^{\alpha\prime}{}_{\prime}\,\omega_{\kappa\alpha}{}^{\kappa}-t_1\,\omega_{\prime}{}^{\kappa\lambda}\,\omega_{\kappa\lambda}{}^{\prime}-r_5\,\partial_{\prime}\omega^{\kappa\lambda}{}_{\kappa}\,\partial^{\prime}\omega_{\lambda}{}^{\alpha}-$$
$$\frac{2}{3}r_1\,\partial^{\beta}\omega^{\theta\alpha}{}_{\kappa}\,\partial_{\theta}\omega_{\alpha\beta}{}^{\kappa}-\frac{2}{3}r_1\,\partial_{\theta}\omega_{\alpha\beta}{}^{\kappa}\,\partial_{\kappa}\omega^{\theta\alpha\beta}-$$
$$r_5\,\partial_{\alpha}\omega_{\lambda}{}^{\alpha}{}_{\theta}\,\partial_{\kappa}\omega^{\theta\kappa\lambda}+r_5\,\partial_{\theta}\omega_{\lambda}{}^{\alpha}{}_{\alpha}\,\partial_{\kappa}\omega^{\kappa\lambda\theta}+$$
$$2\,r_5\,\partial_{\theta}\omega_{\lambda}{}^{\alpha}{}_{\alpha}\,\partial_{\kappa}\omega^{\kappa\lambda\theta}-\frac{1}{2}t_1\,\partial^{\alpha}f_{\theta\kappa}\,\partial^{\kappa}f_{\alpha}{}^{\theta}-$$
$$\frac{1}{2}t_1\,\partial^{\alpha}f^{\lambda}{}_{\kappa}\,\partial^{\kappa}f^{\prime}{}_{\lambda\alpha}+\frac{1}{3}t_1\,\omega_{\kappa\alpha}{}^{\alpha}\,\partial^{\kappa}f^{\prime}{}_{\prime}-\frac{2}{3}t_3\,\omega_{\kappa\alpha}{}^{\alpha}\,\partial^{\kappa}f^{\prime}{}_{\prime}-$$
$$\frac{2}{3}t_3\,\omega_{\kappa\lambda}{}^{\lambda}\,\partial^{\kappa}f^{\prime}{}_{\prime}+\frac{2}{3}t_1\,\partial^{\alpha}f_{\kappa\alpha}\,\partial^{\kappa}f^{\prime}{}_{\prime}-\frac{4}{3}t_3\,\partial^{\alpha}f_{\kappa\alpha}\,\partial^{\kappa}f^{\prime}{}_{\prime}-\frac{1}{3}t_1\,\partial_{\kappa}f^{\lambda}{}_{\lambda}\,\partial^{\kappa}f^{\prime}{}_{\prime}+$$
$$\frac{2}{3}t_3\,\partial_{\kappa}f^{\lambda}{}_{\lambda}\,\partial^{\kappa}f^{\prime}{}_{\prime}+2\,t_1\,\omega_{\prime\kappa\theta}\,\partial^{\kappa}f^{\prime\theta}-\frac{1}{3}t_1\,\omega_{\prime}{}^{\lambda}{}_{\lambda}\,\partial^{\kappa}f^{\prime}{}_{\kappa}+\frac{2}{3}t_3\,\omega_{\prime\lambda}{}^{\lambda}\,\partial^{\kappa}f^{\prime}{}_{\kappa}-$$
$$\frac{1}{2}t_1\,\partial_{\kappa}f^{\lambda}{}_{\theta}\,\partial^{\kappa}f_{\lambda}{}^{\theta}-\frac{1}{3}t_1\,\partial^{\alpha}f^{\lambda}{}_{\alpha}\,\partial^{\kappa}f_{\lambda\kappa}+$$
$$\frac{2}{3}r_1\,\partial_{\kappa}\omega^{\alpha\beta\theta}\,\partial^{\kappa}\omega_{\alpha\beta\theta}-\frac{2}{3}r_1\,\partial_{\kappa}\omega^{\theta\alpha\beta}\,\partial^{\kappa}\omega_{\alpha\beta\theta}+$$
$$\frac{8}{3}r_1\,\partial^{\beta}\omega_{\prime}{}^{\lambda\alpha}\,\partial_{\lambda}\omega_{\alpha\beta}{}^{\prime}+r_5\,\partial_{\alpha}\omega_{\lambda}{}^{\alpha}{}_{\theta}\,\partial^{\lambda}\omega^{\theta\kappa}{}_{\kappa}-r_5\,\partial_{\theta}\omega_{\lambda}{}^{\alpha}{}_{\alpha}\,\partial^{\lambda}\omega^{\theta\kappa}{}_{\kappa}$$

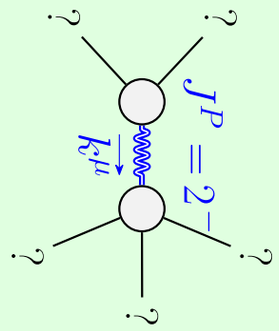
Added source term: $f^{\alpha\beta}\,\tau_{\alpha\beta}+\omega^{\alpha\beta\chi}\,\sigma_{\alpha\beta\chi}$

	$\omega_{1^+}^{\#1}{}_{\alpha\beta}$	$\omega_{1^+}^{\#2}{}_{\alpha\beta}$	$f_{1^+}^{\#1}{}_{\alpha\beta}$	$\omega_{1^-}^{\#1}{}_{\alpha}$	$\omega_{1^-}^{\#2}{}_{\alpha}$	$f_{1^-}^{\#1}{}_{\alpha}$	$f_{1^-}^{\#2}{}_{\alpha}$
$\omega_{1^+}^{\#1}\,\dagger^{\alpha\beta}$	$k^2\,(2\,r_1+r_5)-\frac{t_1}{2}$	$-\frac{t_1}{\sqrt{2}}$	$-\frac{i\,k\,t_1}{\sqrt{2}}$	0	0	0	0
$\omega_{1^+}^{\#2}\,\dagger^{\alpha\beta}$	$-\frac{t_1}{\sqrt{2}}$	0	0	0	0	0	0
$f_{1^+}^{\#1}\,\dagger^{\alpha\beta}$	$\frac{i\,k\,t_1}{\sqrt{2}}$	0	0	0	0	0	0
$\omega_{1^-}^{\#1}\,\dagger^{\alpha}$	0	0	0	$\frac{1}{6}\,(6\,k^2\,(r_1+r_5)+t_1+4\,t_3)$	$\frac{t_1-2\,t_3}{3\,\sqrt{2}}$	0	$\frac{1}{3}\,i\,k\,(t_1-2\,t_3)$
$\omega_{1^-}^{\#2}\,\dagger^{\alpha}$	0	0	0	$\frac{t_1-2\,t_3}{3\,\sqrt{2}}$	$\frac{t_1+t_3}{3}$	0	$\frac{1}{3}\,i\,\sqrt{2}\,k\,(t_1+t_3)$
$f_{1^-}^{\#1}\,\dagger^{\alpha}$	0	0	0	0	0	0	0
$f_{1^-}^{\#2}\,\dagger^{\alpha}$	0	0	0	$-\frac{1}{3}\,i\,k\,(t_1-2\,t_3)$	$-\frac{1}{3}\,i\,\sqrt{2}\,k\,(t_1+t_3)$	0	$\frac{2}{3}\,k^2\,(t_1+t_3)$



Massive particle

Pole residue:	$-\frac{3\,(-2\,t_1\,t_3\,(t_1+t_3)+r_1\,(t_1{}^2+2\,t_3{}^2)+r_5\,(t_1{}^2+2\,t_3{}^2))}{2\,(r_1+r_5)\,(t_1+t_3)\,(-3\,t_1\,t_3+r_1\,(t_1+t_3)+r_5\,(t_1+t_3))} > 0$
Polarisations:	3
Square mass:	$-\frac{3\,t_1\,t_3}{2\,(r_1+r_5)\,(t_1+t_3)} > 0$
Spin:	1
Parity:	Odd



Massive particle

Pole residue:	$-\frac{1}{r_1} > 0$
Polarisations:	5
Square mass:	$-\frac{t_1}{2\,r_1} > 0$
Spin:	2
Parity:	Odd

Unitarity conditions

$$r_1 < 0\;\&\&\;r_5 < -r_1\;\&\&\;t_1 > 0\;\&\&\;t_3 < -t_1\;||\;t_3 > 0$$

(No massless particles)