Source constraints	#
$\tau_{0^+}^{\#2} == 0$	1
$\tau_{0^+}^{\#1} == 0$	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

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

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

Lagrangian density

$$-\frac{1}{3}\,t_1\,\omega_{\iota}{}^{\alpha\iota}\,\omega_{\kappa\alpha}{}^{\kappa} - t_1\,\omega_{\iota}{}^{\kappa\lambda}\,\omega_{\kappa\lambda}{}^{\prime} + 2\,r_1\,\partial_{\iota}\omega^{\kappa\lambda}{}_{\kappa}\,\partial^{\prime}\omega_{\lambda}{}^{\alpha}{}_{\alpha} - 2\,r_3\,\partial_{\iota}\omega^{\kappa\lambda}{}_{\kappa}\,\partial^{\prime}\omega_{\lambda}{}^{\alpha}{}_{\alpha} -$$
$$r_5\,\partial_{\iota}\omega^{\kappa\lambda}{}_{\kappa}\,\partial^{\prime}\omega_{\lambda}{}^{\alpha}{}_{\alpha} - \frac{2}{3}\,r_1\,\partial^{\beta}\omega^{\theta\alpha}{}_{\kappa}\,\partial_{\theta}\omega_{\alpha\beta}{}^{\kappa} - \frac{2}{3}\,r_1\,\partial_{\theta}\omega_{\alpha\beta}{}^{\kappa}\,\partial_{\kappa}\omega^{\alpha\beta\theta} +$$
$$\frac{2}{3}\,r_1\,\partial_{\theta}\omega_{\alpha\beta}{}^{\kappa}\,\partial_{\kappa}\omega^{\theta\alpha\beta} - 2\,r_1\,\partial_{\alpha}\omega_{\lambda}{}^{\alpha}{}_{\theta}\,\partial_{\kappa}\omega^{\theta\kappa\lambda} + 2\,r_3\,\partial_{\alpha}\omega_{\lambda}{}^{\alpha}{}_{\theta}\,\partial_{\kappa}\omega^{\theta\kappa\lambda} -$$
$$r_5\,\partial_{\alpha}\omega_{\lambda}{}^{\alpha}{}_{\theta}\,\partial_{\kappa}\omega^{\theta\kappa\lambda} + 2\,r_1\,\partial_{\theta}\omega_{\lambda}{}^{\alpha}{}_{\alpha}\,\partial_{\kappa}\omega^{\theta\kappa\lambda} - 2\,r_3\,\partial_{\theta}\omega_{\lambda}{}^{\alpha}{}_{\alpha}\,\partial_{\kappa}\omega^{\theta\kappa\lambda} +$$
$$r_5\,\partial_{\theta}\omega_{\lambda}{}^{\alpha}{}_{\alpha}\,\partial_{\kappa}\omega^{\theta\kappa\lambda} + 2\,r_1\,\partial_{\alpha}\omega_{\lambda}{}^{\alpha}{}_{\theta}\,\partial_{\kappa}\omega^{\kappa\lambda\theta} - 2\,r_3\,\partial_{\alpha}\omega_{\lambda}{}^{\alpha}{}_{\theta}\,\partial_{\kappa}\omega^{\kappa\lambda\theta} -$$
$$r_5\,\partial_{\alpha}\omega_{\lambda}{}^{\alpha}{}_{\theta}\,\partial_{\kappa}\omega^{\kappa\lambda\theta} - 4\,r_1\,\partial_{\theta}\omega_{\lambda}{}^{\alpha}{}_{\alpha}\,\partial_{\kappa}\omega^{\kappa\lambda\theta} + 4\,r_3\,\partial_{\theta}\omega_{\lambda}{}^{\alpha}{}_{\alpha}\,\partial_{\kappa}\omega^{\kappa\lambda\theta} +$$
$$2\,r_5\,\partial_{\theta}\omega_{\lambda}{}^{\alpha}{}_{\alpha}\,\partial_{\kappa}\omega^{\kappa\lambda\theta} - \frac{1}{2}\,t_1\,\partial^{\alpha}f_{\theta\kappa}\,\partial^{\kappa}f_{\alpha}{}^{\theta} - \frac{1}{2}\,t_1\,\partial^{\alpha}f_{\kappa\theta}\,\partial^{\kappa}f_{\alpha}{}^{\theta} -$$
$$\frac{1}{2}\,t_1\,\partial^{\alpha}f^{\lambda}{}_{\kappa}\,\partial^{\kappa}f_{\alpha\lambda} + \frac{1}{3}\,t_1\,\omega_{\kappa\alpha}{}^{\alpha}\,\partial^{\kappa}f^{\prime}{}_{\iota} + \frac{1}{3}\,t_1\,\omega_{\kappa\lambda}{}^{\lambda}\,\partial^{\kappa}f^{\prime}{}_{\iota} + \frac{2}{3}\,t_1\,\partial^{\alpha}f_{\kappa\alpha}\,\partial^{\kappa}f^{\prime}{}_{\iota} -$$
$$\frac{1}{3}\,t_1\,\partial_{\kappa}f^{\lambda}{}_{\lambda}\,\partial^{\kappa}f^{\prime}{}_{\iota} + 2\,t_1\,\omega_{\iota\kappa\theta}\,\partial^{\kappa}f^{\iota\theta} - \frac{1}{3}\,t_1\,\omega_{\iota\alpha}{}^{\alpha}\,\partial^{\kappa}f^{\prime}{}_{\kappa} - \frac{1}{3}\,t_1\,\omega_{\iota\lambda}{}^{\lambda}\,\partial^{\kappa}f^{\prime}{}_{\kappa} +$$
$$\frac{1}{2}\,t_1\,\partial^{\alpha}f^{\lambda}{}_{\kappa}\,\partial^{\kappa}f_{\lambda\alpha} + \frac{1}{2}\,t_1\,\partial_{\kappa}f_{\theta}{}^{\lambda}\,\partial^{\kappa}f_{\lambda}{}^{\theta} + \frac{1}{2}\,t_1\,\partial_{\kappa}f^{\lambda}{}_{\theta}\,\partial^{\kappa}f_{\lambda}{}^{\theta} -$$
$$\frac{1}{3}\,t_1\,\partial^{\alpha}f^{\lambda}{}_{\alpha}\,\partial^{\kappa}f_{\lambda\kappa} + \frac{2}{3}\,r_1\,\partial_{\kappa}\omega^{\alpha\beta\theta}\,\partial^{\kappa}\omega_{\alpha\beta\theta} - \frac{2}{3}\,r_1\,\partial_{\kappa}\omega^{\theta\alpha\beta}\,\partial^{\kappa}\omega_{\alpha\beta\theta} +$$
$$\frac{2}{3}\,r_1\,\partial^{\beta}\omega_{\iota}{}^{\alpha\lambda}\,\partial_{\lambda}\omega_{\alpha\beta}{}^{\prime} + \frac{4}{3}\,r_1\,\partial^{\beta}\omega_{\iota}{}^{\lambda\alpha}\,\partial_{\lambda}\omega_{\alpha\beta}{}^{\prime} - 4\,r_3\,\partial^{\beta}\omega_{\iota}{}^{\lambda\alpha}\,\partial_{\lambda}\omega_{\alpha\beta}{}^{\prime} +$$
$$2\,r_1\,\partial_{\alpha}\omega_{\lambda}{}^{\alpha}{}_{\theta}\,\partial^{\lambda}\omega^{\theta\kappa}{}_{\kappa} - 2\,r_3\,\partial_{\alpha}\omega_{\lambda}{}^{\alpha}{}_{\theta}\,\partial^{\lambda}\omega^{\theta\kappa}{}_{\kappa} + r_5\,\partial_{\alpha}\omega_{\lambda}{}^{\alpha}{}_{\theta}\,\partial^{\lambda}\omega^{\theta\kappa}{}_{\kappa} -$$
$$2\,r_1\,\partial_{\theta}\omega_{\lambda}{}^{\alpha}{}_{\alpha}\,\partial^{\lambda}\omega^{\theta\kappa}{}_{\kappa} + 2\,r_3\,\partial_{\theta}\omega_{\lambda}{}^{\alpha}{}_{\alpha}\,\partial^{\lambda}\omega^{\theta\kappa}{}_{\kappa} - r_5\,\partial_{\theta}\omega_{\lambda}{}^{\alpha}{}_{\alpha}\,\partial^{\lambda}\omega^{\theta\kappa}{}_{\kappa}$$

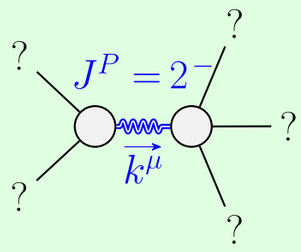
Added source term: $f^{\alpha\beta}\,\tau_{\alpha\beta} + \omega^{\alpha\beta\chi}\,\sigma_{\alpha\beta\chi}$

	$\omega_{1^+}^{\#1}{}_{\alpha\beta}$	$\omega_{1^+}^{\#2}{}_{\alpha\beta}$	$f_{1^+}^{\#1}{}_{\alpha\beta}$	$\omega_{1^-}^{\#1}{}_{\alpha}$	$\omega_{1^-}^{\#2}{}_{\alpha}$	$f_{1^-}^{\#1}{}_{\alpha}$	$f_{1^-}^{\#2}{}_{\alpha}$
$\omega_{1^+}^{\#1}{}^{\dagger\,\alpha\beta}$	$k^2\,(2\,r_3 + r_5) - \frac{t_1}{2}$	$-\frac{t_1}{\sqrt{2}}$	$-\frac{i\,k\,t_1}{\sqrt{2}}$	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	$k^2\,(-r_1 + 2\,r_3 + r_5) + \frac{t_1}{6}$	$\frac{t_1}{3\,\sqrt{2}}$	0	$\frac{i\,k\,t_1}{3}$
$\omega_{1^-}^{\#2}{}^{\dagger\,\alpha}$	0	0	0	$\frac{t_1}{3\,\sqrt{2}}$	$\frac{t_1}{3}$	0	$\frac{1}{3}\,i\,\sqrt{2}\,k\,t_1$
$f_{1^-}^{\#1}{}^{\dagger\,\alpha}$	0	0	0	0	0	0	0
$f_{1^-}^{\#2}{}^{\dagger\,\alpha}$	0	0	0	$-\frac{1}{3}\,i\,k\,t_1$	$-\frac{1}{3}\,i\,\sqrt{2}\,k\,t_1$	0	$\frac{2\,k^2\,t_1}{3}$

	$\omega_{0^+}^{\#1}$	$f_{0^+}^{\#1}$	$f_{0^+}^{\#2}$	$\omega_{0^-}^{\#1}$
$\omega_{0^+}^{\#1}{}^{\dagger}$	$6\,k^2\,(-r_1 + r_3)$	0	0	0
$f_{0^+}^{\#1}{}^{\dagger}$	0	0	0	0
$f_{0^+}^{\#2}{}^{\dagger}$	0	0	0	0
$\omega_{0^-}^{\#1}{}^{\dagger}$	0	0	0	$-t_1$

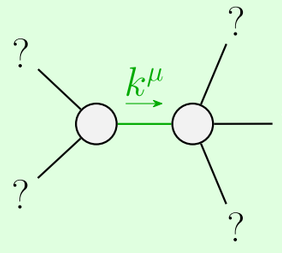
	$\sigma_{0^+}^{\#1}{}^{\dagger}$	$\tau_{0^+}^{\#1}{}^{\dagger}$	$\tau_{0^+}^{\#2}{}^{\dagger}$	$\sigma_{0^-}^{\#1}{}^{\dagger}$
$\sigma_{0^+}^{\#1}$	$\frac{1}{6\,k^2\,(-r_1 + r_3)}$	0	0	0
$\tau_{0^+}^{\#1}$	0	0	0	0
$\tau_{0^+}^{\#2}$	0	0	0	0
$\sigma_{0^-}^{\#1}$	0	0	0	$-\frac{1}{t_1}$

	$\sigma_{1^+}^{\#1}{}^{\dagger\,\alpha\beta}$	$\sigma_{1^+}^{\#2}{}^{\dagger\,\alpha\beta}$	$\tau_{1^+}^{\#1}{}^{\dagger\,\alpha\beta}$	$\sigma_{1^-}^{\#1}{}^{\dagger\,\alpha}$	$\tau_{1^+}^{\#1}{}^{\dagger\,\alpha\beta}$	$\tau_{1^-}^{\#1}{}^{\dagger\,\alpha}$	$\sigma_{1^-}^{\#2}{}^{\dagger\,\alpha}$	$\tau_{1^-}^{\#2}{}^{\dagger\,\alpha}$
$\sigma_{1^+}^{\#1\,\alpha\beta}$	0	$-\frac{\sqrt{2}}{t_1 + k^2\,t_1}$	$-\frac{i\,\sqrt{2}\,k}{t_1 + k^2\,t_1}$	0	0	0	0	0
$\sigma_{1^+}^{\#2\,\alpha\beta}$	$-\frac{\sqrt{2}}{t_1 + k^2\,t_1}$	$\frac{-2\,k^2\,(2\,r_3 + r_5) + t_1}{(1+k^2)^2\,t_1^2}$	$\frac{i\,(2\,k^3\,(2\,r_3 + r_5) + k\,t_1)}{(1+k^2)^2\,t_1^2}$	0	0	0	0	0
$\tau_{1^+}^{\#1\,\alpha\beta}$	$\frac{i\,\sqrt{2}\,k}{t_1 + k^2\,t_1}$	$\frac{i\,(2\,k^3\,(2\,r_3 + r_5) + i\,k\,t_1)}{(1+k^2)^2\,t_1^2}$	$\frac{-2\,k^4\,(2\,r_3 + r_5) + k^2\,t_1}{(1+k^2)^2\,t_1^2}$	0	0	0	0	0
$\sigma_{1^-}^{\#1\,\alpha}$	0	0	0	0	$\frac{1}{k^2\,(-r_1 + 2\,r_3 + r_5)}$	$\frac{1}{\sqrt{2}\,(k^2 + 2\,k^4)\,(r_1 - 2\,r_3 - r_5)}$	$\frac{1}{\sqrt{2}\,k\,(1+2\,k^2)^2\,(r_1 - 2\,r_3 - r_5)}$	$\frac{i\,(6\,k^2\,(r_1 - 2\,r_3 - r_5) - t_1)}{\sqrt{2}\,k\,(1+2\,k^2)^2\,(r_1 - 2\,r_3 - r_5)\,t_1}$
$\tau_{1^+}^{\#1\,\alpha\beta}$	0	0	0	0	$\frac{1}{\sqrt{2}\,(k^2 + 2\,k^4)\,(r_1 - 2\,r_3 - r_5)}$	$\frac{1}{\frac{-r_1 + 2\,r_3 + r_5}{2\,(k + 2\,k^3)^2} + \frac{6\,k^2}{t_1}}$	$\frac{1}{\sqrt{2}\,k\,(1+2\,k^2)^2\,(r_1 - 2\,r_3 - r_5)\,t_1}$	0
$\tau_{1^-}^{\#1\,\alpha}$	0	0	0	0	$\frac{1}{\sqrt{2}\,k\,(1+2\,k^2)\,(r_1 - 2\,r_3 - r_5)}$	$\frac{i}{k\,(1+2\,k^2)\,(-r_1 + 2\,r_3 + r_5)}$	$\frac{1}{\frac{-r_1 + 2\,r_3 + r_5}{(1+2\,k^2)^2} + \frac{6\,k^2}{t_1}}$	$-\frac{i\,(6\,k^2\,(r_1 - 2\,r_3 - r_5) - t_1)}{\sqrt{2}\,k\,(1+2\,k^2)^2\,(r_1 - 2\,r_3 - r_5)\,t_1}$
$\sigma_{1^-}^{\#2\,\alpha}$	0	0	0	0	$\frac{1}{\sqrt{2}\,k\,(1+2\,k^2)\,(r_1 - 2\,r_3 - r_5)}$	$\frac{i}{k\,(1+2\,k^2)\,(-r_1 + 2\,r_3 + r_5)}$	0	0
$\tau_{1^-}^{\#2\,\alpha}$	0	0	0	0	$\frac{i}{k\,(1+2\,k^2)\,(r_1 - 2\,r_3 - r_5)}$	$-\frac{i\,(6\,k^2\,(r_1 - 2\,r_3 - r_5) - t_1)}{\sqrt{2}\,k\,(1+2\,k^2)^2\,(r_1 - 2\,r_3 - r_5)\,t_1}$	0	0



Massive particle

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



Quadratic pole

Pole residue:	$\frac{1}{(r_1 - 2\,r_3 - r_5)\,t_1^2} > 0$
Polarisations:	2

Unitarity conditions

$r_1 < 0 \;\&\&\; r_5 < r_1 - 2\,r_3 \;\&\&\; t_1 > 0$