Table (left)

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

Table (second)

	$\omega_{1^+}^{\#1}\dagger^{\alpha\beta}$	$\omega_{1^+}^{\#2}\dagger^{\alpha\beta}$	$f_{1^+}^{\#1}\dagger^{\alpha\beta}$	$\omega_{1^-}^{\#1}\dagger^{\alpha}$	$\omega_{1^-}^{\#2}\dagger^{\alpha}$	$f_{1^-}^{\#1}\dagger^{\alpha}$	$f_{1^-}^{\#2}\dagger^{\alpha}$
$f_{1^-}^{\#2}{}_{\alpha}$	0	0	0	$-\dfrac{2}{3}ikt_3$	$\dfrac{1}{3}i\sqrt{2}kt_3$	0	$\dfrac{2k^2t_3}{3}$
$f_{1^-}^{\#1}{}_{\alpha}$	0	0	0	0	0	0	0
$\omega_{1^-}^{\#2}{}_{\alpha}$	0	0	0	$-\dfrac{\sqrt{2}t_3}{3}$	$\dfrac{t_3}{3}$	0	$-\dfrac{1}{3}i\sqrt{2}kt_3$
$\omega_{1^-}^{\#1}{}_{\alpha}$	0	0	0	$k^2(r_1+r_5)+\dfrac{2t_3}{3}$	$-\dfrac{\sqrt{2}t_3}{3}$	0	$\dfrac{2ikt_3}{3}$
$\omega_{1^+}^{\#2}{}_{\alpha\beta}$ / $f_{1^+}^{\#1}{}_{\alpha\beta}$	0	0	0	0	0	0	0
$\omega_{1^+}^{\#1}{}_{\alpha\beta}$	$k^2(2r_1+r_5)$	0	0	0	0	0	0

Lagrangian density

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

Table (σ/τ spin-2)

	$\sigma_{2^+}^{\#1}{}_{\alpha\beta}$	$\tau_{2^+}^{\#1}{}_{\alpha\beta}$	$\sigma_{2^-}^{\#1}{}_{\alpha\beta\chi}$
$\sigma_{2^+}^{\#1}\dagger^{\alpha\beta}$	0	0	0
$\tau_{2^+}^{\#1}\dagger^{\alpha\beta}$	0	0	0
$\sigma_{2^-}^{\#1}\dagger^{\alpha\beta\chi}$	0	0	$\dfrac{1}{k^2r_1}$

Table (ω/f spin-2)

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

Table (ω/f spin-0)

	$\omega_{0^+}^{\#1}$	$f_{0^+}^{\#1}$	$f_{0^+}^{\#2}$	$\omega_{0^-}^{\#1}$
$\omega_{0^+}^{\#1}\dagger$	t_3	$-i\sqrt{2}\,kt_3$	0	0
$f_{0^+}^{\#1}\dagger$	$i\sqrt{2}\,kt_3$	$2k^2t_3$	0	0
$f_{0^+}^{\#2}\dagger$	0	0	0	0
$\omega_{0^-}^{\#1}\dagger$	0	0	0	0

Table (σ/τ spin-0)

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

Source constraints

SO(3) irreps	#
$\sigma_{0^-}^{\#1} == 0$	1
$\tau_{0^+}^{\#2} == 0$	1
$\tau_{0^+}^{\#1} - 2ik\,\sigma_{0^+}^{\#1} == 0$	1
$\tau_{1^-}^{\#2\alpha} + 2ik\,\sigma_{1^-}^{\#2\alpha} == 0$	3
$\tau_{1^-}^{\#1\alpha} == 0$	3
$\tau_{1^+}^{\#1\alpha\beta} == 0$	3
$\sigma_{1^+}^{\#2\alpha\beta} == 0$	3
$\tau_{2^+}^{\#1\alpha\beta} == 0$	5
$\sigma_{2^+}^{\#1\alpha\beta} == 0$	5
Total #:	25

(No massive particles)

Quadratic pole

Pole residue: $-\dfrac{1}{r_1(r_1+r_5)(2r_1+r_5)p^2} > 0$

Polarisations: 2

$r_1 < 0 \,\&\&\, (r_5 < -r_1 \,||\, r_5 > -2r_1) \,||\, r_1 > 0 \,\&\&\, -2r_1 < r_5 < -r_1$