

$\sigma_{2^+}^{\#1}{}_{\alpha\beta}$	$\tau_{2^+}^{\#1}{}_{\alpha\beta}$	$\sigma_{2^-}^{\#1}{}_{\alpha\beta\chi}$
$\sigma_{2^+}^{\#1}{}_{\alpha\beta}$	0	0
$\tau_{2^+}^{\#1}{}_{\alpha\beta}$	0	$\frac{1}{k^2\lambda}$
$\sigma_{2^-}^{\#1}{}_{\alpha\beta\chi}$	0	0

$\omega_{0^+}^{\#1}$	$f_{0^+}^{\#1}$	$f_{0^+}^{\#2}$	$\omega_{0^-}^{\#1}$
$\omega_{0^+}^{\#1}$	0	0	0
$f_{0^+}^{\#1}$	0	$-2k^2\lambda$	0
$f_{0^+}^{\#2}$	0	0	0
$\omega_{0^-}^{\#1}$	0	0	0

Source constraints	#
SO(3) irreps	
$\sigma_{0^-}^{\#1} == 0$	1
$\tau_{0^+}^{\#2} == 0$	1
$\sigma_{0^+}^{\#1} == 0$	1
$\tau_{1^-}^{\#2\alpha} == 0$	3
$\tau_{1^-}^{\#1\alpha} == 0$	3
$\sigma_{1^-}^{\#2\alpha} == 0$	3
$\sigma_{1^-}^{\#1\alpha} == 0$	3
$\tau_{1^+}^{\#1\alpha\beta} == 0$	3
$\sigma_{1^+}^{\#2\alpha\beta} == 0$	3
$\sigma_{1^+}^{\#1\alpha\beta} == 0$	3
$\sigma_{2^-}^{\#1\alpha\beta\chi} == 0$	5
$\sigma_{2^+}^{\#1\alpha\beta} == 0$	5
Total #:	34

$\omega_{2^+}^{\#1}$	$f_{2^+}^{\#1}$	$\omega_{2^-}^{\#1}$
$\omega_{2^+}^{\#1}$	0	0
$f_{2^+}^{\#1}$	0	$k^2\lambda$
$\omega_{2^-}^{\#1}$	0	0

Source constraints	#
SO(3) irreps	
$\sigma_{0^-}^{\#1} == 0$	1
$\tau_{0^+}^{\#2} == 0$	1
$\sigma_{0^+}^{\#1} == 0$	1
$\tau_{1^-}^{\#2\alpha} == 0$	3
$\tau_{1^-}^{\#1\alpha} == 0$	3
$\sigma_{1^-}^{\#2\alpha} == 0$	3
$\sigma_{1^-}^{\#1\alpha} == 0$	3
$\tau_{1^+}^{\#1\alpha\beta} == 0$	3
$\sigma_{1^+}^{\#2\alpha\beta} == 0$	3
$\sigma_{1^+}^{\#1\alpha\beta} == 0$	3
$\sigma_{2^-}^{\#1\alpha\beta\chi} == 0$	5
$\sigma_{2^+}^{\#1\alpha\beta} == 0$	5
Total #:	34

$\sigma_{0^+}^{\#1}$	$\tau_{0^+}^{\#1}$	$\tau_{0^+}^{\#2}$	$\sigma_{0^-}^{\#1}$
$\sigma_{0^+}^{\#1}$	0	0	0
$\tau_{0^+}^{\#1}$	0	$-\frac{1}{2k^2\lambda}$	0
$\tau_{0^+}^{\#2}$	0	0	0
$\sigma_{0^-}^{\#1}$	0	0	0

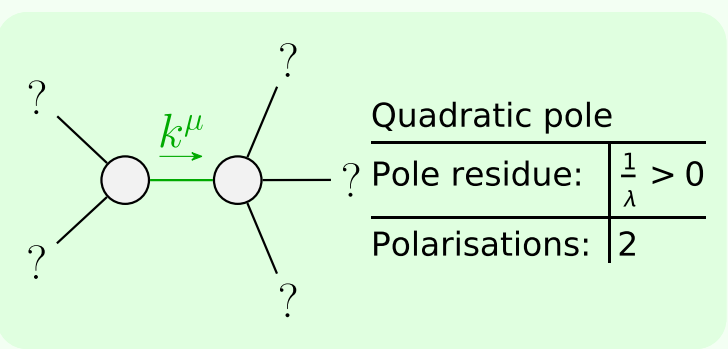
$\sigma_{1^+}^{\#1}$	$\sigma_{1^+}^{\#2}$	$\tau_{1^+}^{\#1}$	$\sigma_{1^-}^{\#1}$	$\sigma_{1^-}^{\#2}$	$\tau_{1^-}^{\#1}$	$\tau_{1^-}^{\#2}$
$\sigma_{1^+}^{\#1}$	0	0	0	0	0	0
$\sigma_{1^+}^{\#2}$	0	0	0	0	0	0
$\tau_{1^+}^{\#1}$	0	0	0	0	0	0
$\sigma_{1^-}^{\#1}$	0	0	0	0	0	0
$\sigma_{1^-}^{\#2}$	0	0	0	0	0	0
$\tau_{1^-}^{\#1}$	0	0	0	0	0	0
$\tau_{1^-}^{\#2}$	0	0	0	0	0	0

Lagrangian density

$$\begin{aligned}
& -\lambda \omega_{\mu\kappa\theta} \omega^{\mu\theta\kappa} - \lambda \omega_{\mu\theta\kappa}^{\prime} \omega_{\theta\kappa}^{\prime\kappa} - \lambda \omega_{\mu\alpha\iota} \omega_{\kappa\alpha}^{\prime\kappa} - \lambda \omega_{\mu\iota\kappa}^{\prime} \omega_{\kappa\zeta}^{\prime\prime} - \\
& 2\lambda f^{\prime\theta} \partial_{\theta} \omega_{\mu\kappa}^{\prime\kappa} + 2\lambda \partial_{\theta} \omega_{\mu\iota}^{\prime\theta} + 2\lambda f^{\prime\theta} \partial_{\kappa} \omega_{\mu\theta}^{\prime\kappa} - 2\lambda f_{\mu\iota}^{\prime\prime} \partial_{\kappa} \omega^{\theta\kappa} - \\
& \frac{1}{2} \lambda \partial^{\alpha} f_{\theta\kappa} \partial^{\kappa} f_{\alpha}^{\theta} - \frac{1}{2} \lambda \partial^{\alpha} f_{\kappa\theta} \partial^{\kappa} f_{\alpha}^{\theta} - \frac{1}{2} \lambda \partial^{\alpha} f_{\kappa}^{\zeta} \partial^{\kappa} f_{\alpha\zeta} + \\
& \lambda \omega_{\kappa\alpha}^{\prime\prime} \partial^{\kappa} f_{\mu}^{\prime\prime} + \lambda \omega_{\kappa\zeta}^{\prime\prime} \partial^{\kappa} f_{\mu}^{\prime\prime} + 2\lambda \partial^{\alpha} f_{\kappa\alpha} \partial^{\kappa} f_{\mu}^{\prime\prime} - \lambda \partial_{\kappa} f_{\mu}^{\zeta} \partial^{\kappa} f_{\mu}^{\prime\prime} + \\
& 2\lambda \omega_{\mu\kappa\theta} \partial^{\kappa} f^{\prime\theta} - \lambda \omega_{\mu\alpha}^{\prime\prime} \partial^{\kappa} f_{\kappa}^{\prime\prime} - \lambda \omega_{\mu\zeta}^{\prime\prime} \partial^{\kappa} f_{\kappa}^{\prime\prime} + \frac{1}{2} \lambda \partial^{\alpha} f_{\kappa}^{\zeta} \partial^{\kappa} f_{\zeta\alpha} + \\
& \frac{1}{2} \lambda \partial_{\kappa} f_{\theta}^{\zeta} \partial^{\kappa} f_{\zeta}^{\theta} + \frac{1}{2} \lambda \partial_{\kappa} f_{\theta}^{\zeta} \partial^{\kappa} f_{\zeta}^{\theta} - \lambda \partial^{\alpha} f_{\alpha}^{\zeta} \partial^{\kappa} f_{\zeta\kappa}
\end{aligned}$$

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

$\omega_{1^+}^{\#1}$	$\omega_{1^+}^{\#2}$	$f_{1^+}^{\#1}$	$\omega_{1^-}^{\#1}$	$\omega_{1^-}^{\#2}$	$f_{1^-}^{\#1}$	$f_{1^-}^{\#2}$
$\omega_{1^+}^{\#1}$	0	0	0	0	0	0
$\omega_{1^+}^{\#2}$	0	0	0	0	0	0
$f_{1^+}^{\#1}$	0	0	0	0	0	0
$\omega_{1^-}^{\#1}$	0	0	0	0	0	0
$\omega_{1^-}^{\#2}$	0	0	0	0	0	0
$f_{1^-}^{\#1}$	0	0	0	0	0	0
$f_{1^-}^{\#2}$	0	0	0	0	0	0



Unitarity conditions

$\lambda > 0$

(No massive particles)