

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

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

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

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

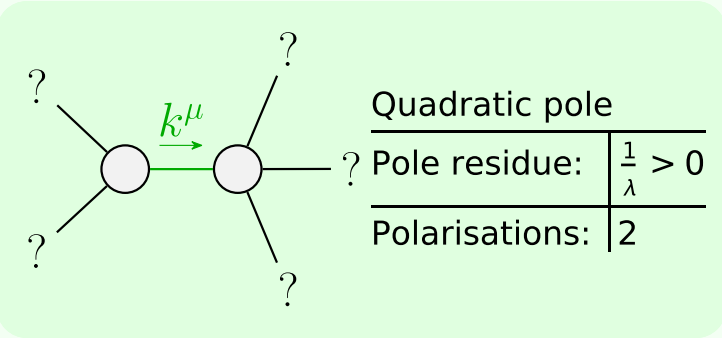
$\sigma_{1^+}^{\#1}{}_{\dagger\alpha\beta}$	$\sigma_{1^+}^{\#2}{}_{\dagger\alpha\beta}$	$\tau_{1^+}^{\#1}{}_{\dagger\alpha\beta}$	$\sigma_{1^-}^{\#1}{}_{\alpha}$	$\sigma_{1^-}^{\#2}{}_{\alpha}$	$\tau_{1^-}^{\#1}{}_{\alpha}$	$\tau_{1^-}^{\#2}{}_{\alpha}$
$\sigma_{1^+}^{\#1}{}_{\dagger\alpha\beta}$	0	0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

Lagrangian density

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

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

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



Unitarity conditions

$\lambda > 0$

(No massive particles)