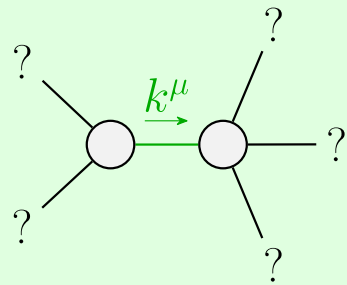


Lagrangian density

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

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

<p> \Rightarrow Pole residue: $\frac{1}{1} > 0$ </p>	
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Polarisations:	2
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(No massive particles)

Unitarity conditions

$\lambda > 0$

[illegible]

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

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

	$\omega_0^{\#1}$	$f_0^{\#1}$	$f_0^{\#2}$	$\omega_0^{\#1}$
$\omega_0^{\#1} \dagger$	0	0	0	0
$f_0^{\#1} \dagger$	0	$-2 k^2 \lambda$	0	0
$f_0^{\#2} \dagger$	0	0	0	0
$\omega_0^{\#1} \dagger$	0	0	0	0

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

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