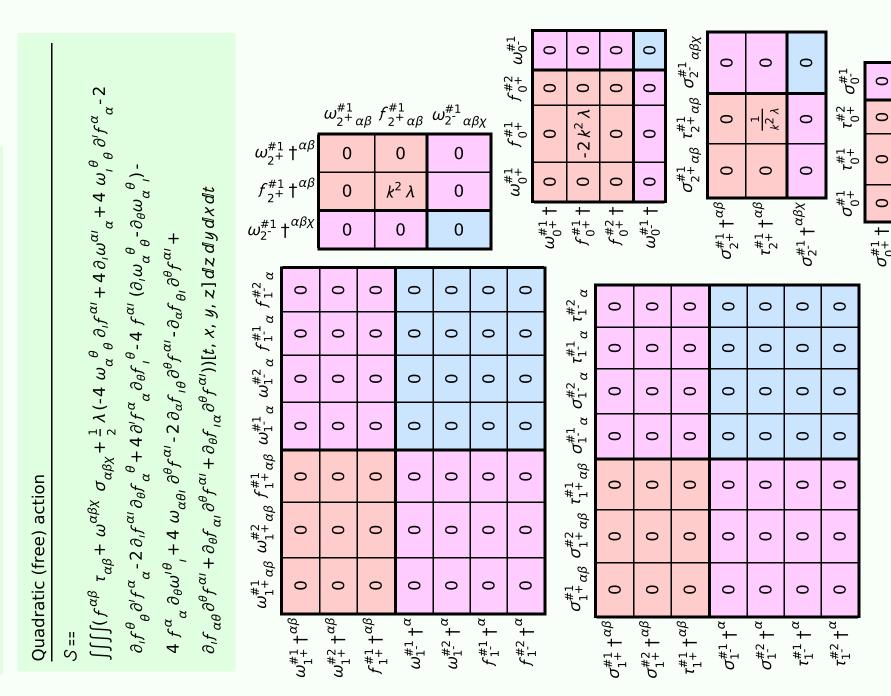
## Particle spectrograph

## Wave operator and propagator

Source constraints/gauge generators	
SO(3) irreps	Multiplicities
$\sigma_0^{\#1} == 0$	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 constraints:	34



0

0

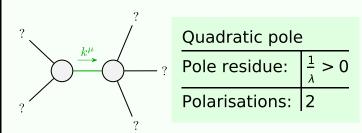
0

0

0

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

## Massive and massless spectra



(No massive particles)

## **Unitarity conditions**