Particle spectrograph

Wave operator and propagator

Source constraints		
SO(3) irreps	Fundamental fields	Multiplicities
$\mathcal{J}_1^{\#1\alpha} == 0$	$\partial_\beta \partial^\alpha \mathcal{J}^\beta == \partial_\beta \partial^\beta \mathcal{J}^\alpha$	3
Total constraints/gauge generators:		3

Quadratic (free) action

$$\mathcal{S} == \iiint\int (\mathcal{B}^\alpha \ \mathcal{J}_\alpha + \beta\, \partial_\alpha \mathcal{B}^\alpha \partial_\beta \mathcal{B}^\beta)[t, x, y, z]\, dz\, dy\, dx\, dt$$
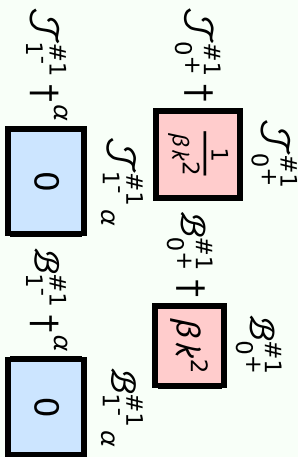
Massive and massless spectra

(No massless particles)   (No massive particles)

Unitarity conditions

True