Particle spectrograph

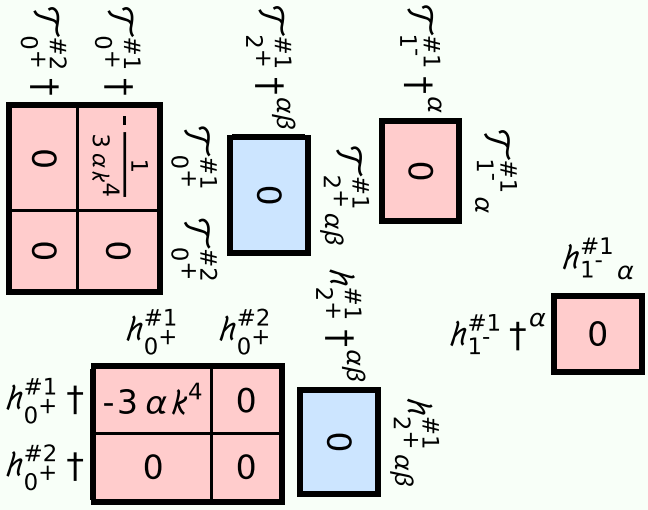
Wave operator and propagator

Quadratic (free) action

$$S == \int\int\int\int (h^{\alpha\beta}\,\mathcal{T}_{\alpha\beta} - \alpha\,(\partial_\beta\partial_\alpha h^{\alpha\beta}\,\partial_\delta\partial_\chi h^{\chi\delta} + \partial_\beta\partial^\beta h^\alpha{}_\alpha\,(-2\,\partial_\delta\partial_\chi h^{\chi\delta} + \partial_\delta\partial^\delta h^\chi{}_\chi)))[t, x, y, z]\,dz\,dy\,dx\,dt$$

Source constraints/gauge generators

SO(3) irreps	Multiplicities
$\mathcal{T}^{\#2}_{0^+} == 0$	1
$\mathcal{T}^{\#1\,\alpha}_{1^-} == 0$	3
$\mathcal{T}^{\#1\,\alpha\beta}_{2^+} == 0$	5
Total constraints:	9



Massive and massless spectra

(No massless particles)

(No massive particles)

Unitarity conditions

True