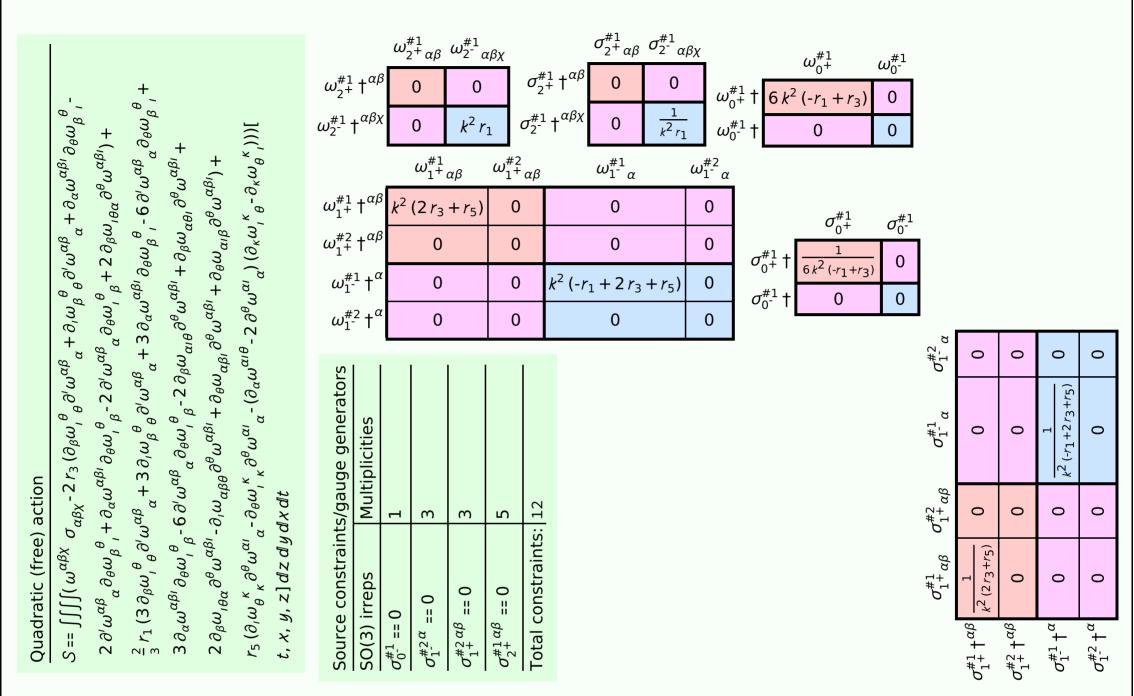
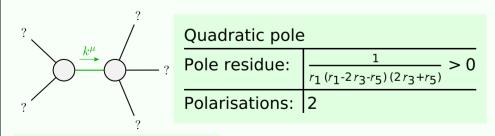
Particle spectrograph

Wave operator and propagator



Massive and massless spectra



(No massive particles)

Unitarity conditions

 $r_1 < 0 \&\& (r_5 < r_1 - 2 r_3 || r_5 > -2 r_3) || r_1 > 0 \&\& -2 r_3 < r_5 < r_1 - 2 r_3$