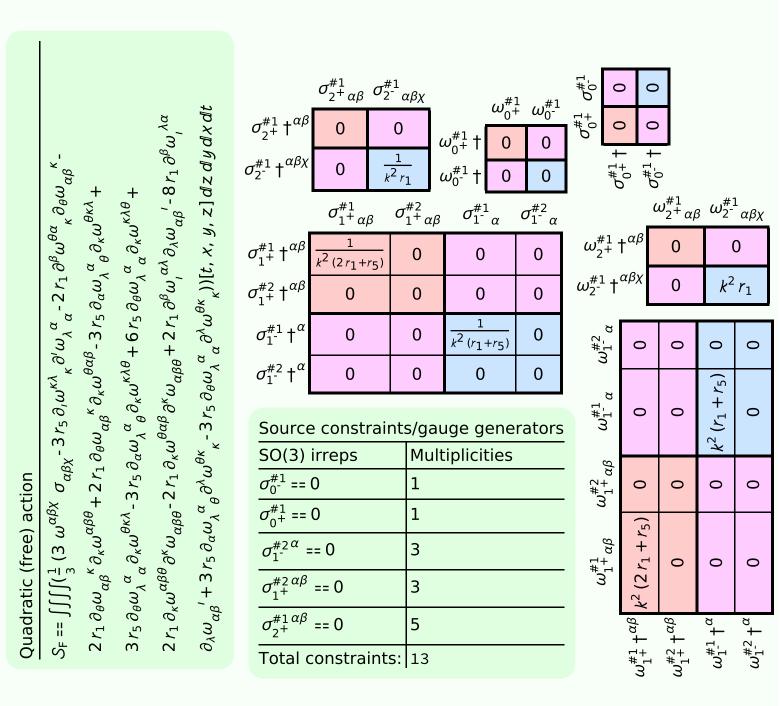
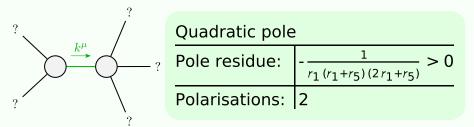
Particle spectrograph

Wave operator and propagator



Massive and massless spectra



(No massive particles)

Unitarity conditions

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