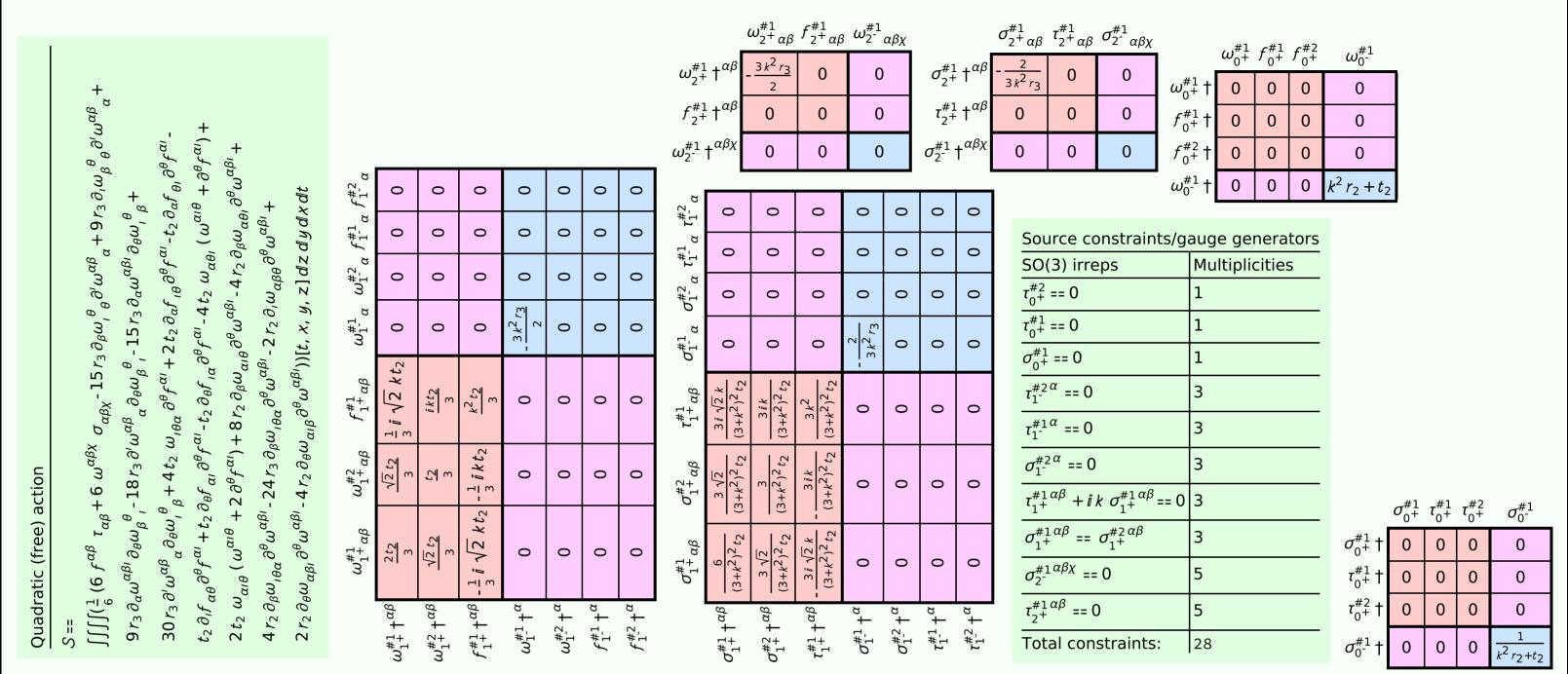
Particle spectrograph

Wave operator and propagator



Massive and massless spectra

Massive particle
Pole residue:
$$-\frac{1}{r_2} > 0$$
Polarisations: 1
Square mass: $-\frac{t_2}{r_2} > 0$
Spin: 0
Parity: Odd

(No massless particles)

Unitarity conditions

 $r_2 < 0 \&\& t_2 > 0$