2. Simple Harmonic Oscillator as a model for matter wave interactions3 lectures (1hr 30m each)

Speakers: Prof. G. S. Agarwal

(a) Theory / Tutorial

Harmonic oscillators
Its application to matter waves
Experiments with matter waves
includes coherent superpositions and interference of matter waves
parametric four wave mixing processes
collapse and revivals
Coherence of matter waves
Spin squeezing in two mode condensates