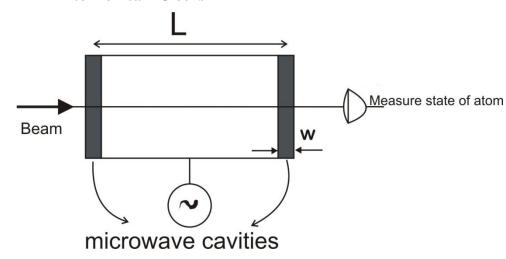
Physics 4062/5062 - Tutorial Ten - Atomic Clocks

Atomic Beam Clocks

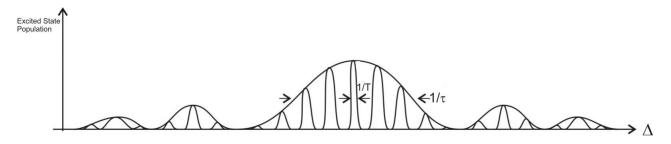


Two spatially separated interaction zones in which atoms are excited between ground states using microwaves.

$$T = L/u \sim 10^{\text{-}3} \text{ s}$$

$$\tau = w/u$$

Atomic Response to Two Pulses/Interactions → **See lecture notes**



Analogy with diffraction/interference patterns

Cold Atom Clocks

