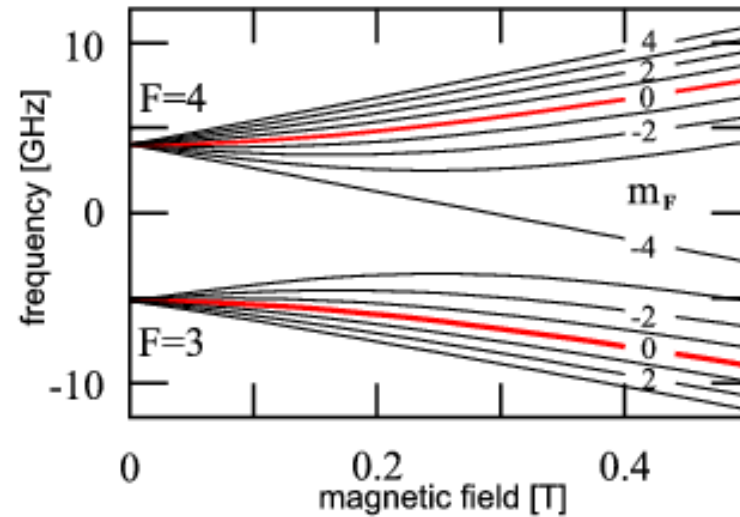
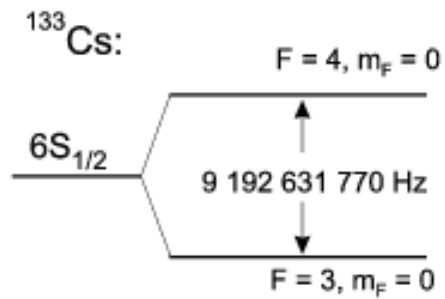


Lecture 7

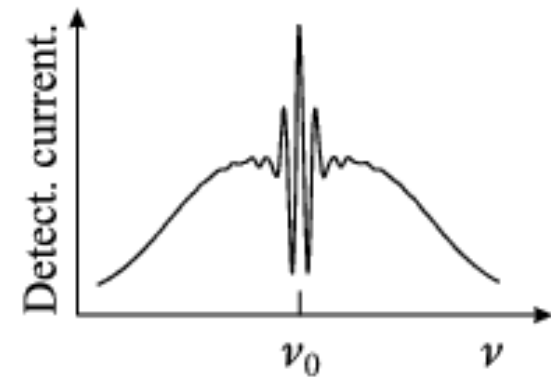
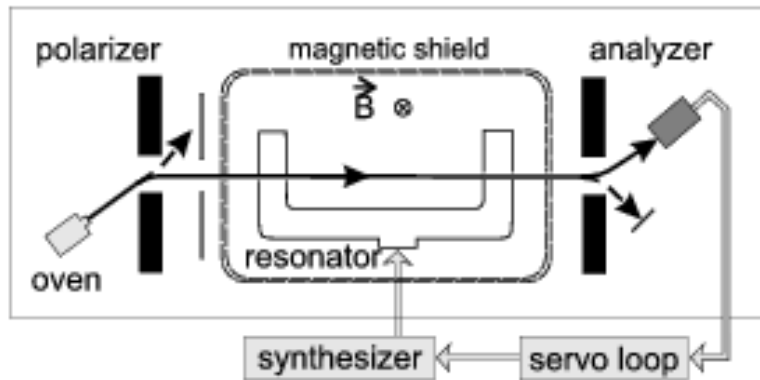
- Optical Bloch equations. Pseudospin.
- Excitation by sequence of coherent pulses. Ramsey method.
- Cesium beam apparatus. Allan deviation, stability, accuracy.



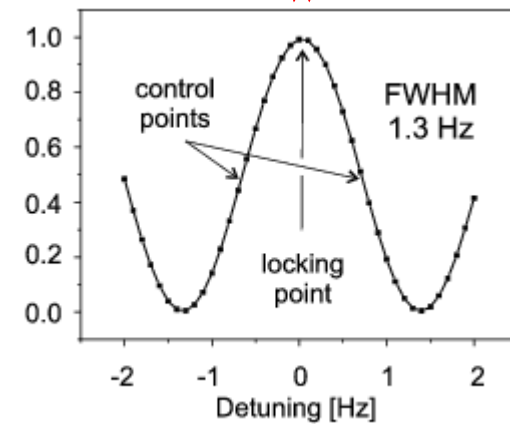
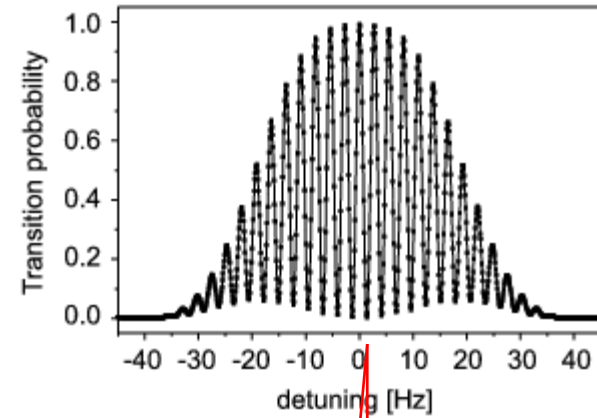
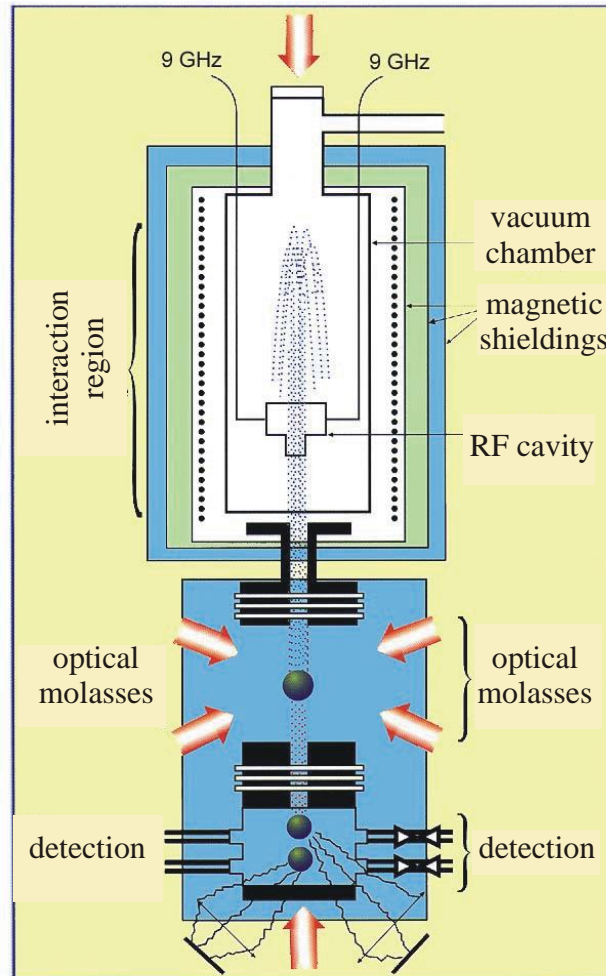
Cs ground state splitting



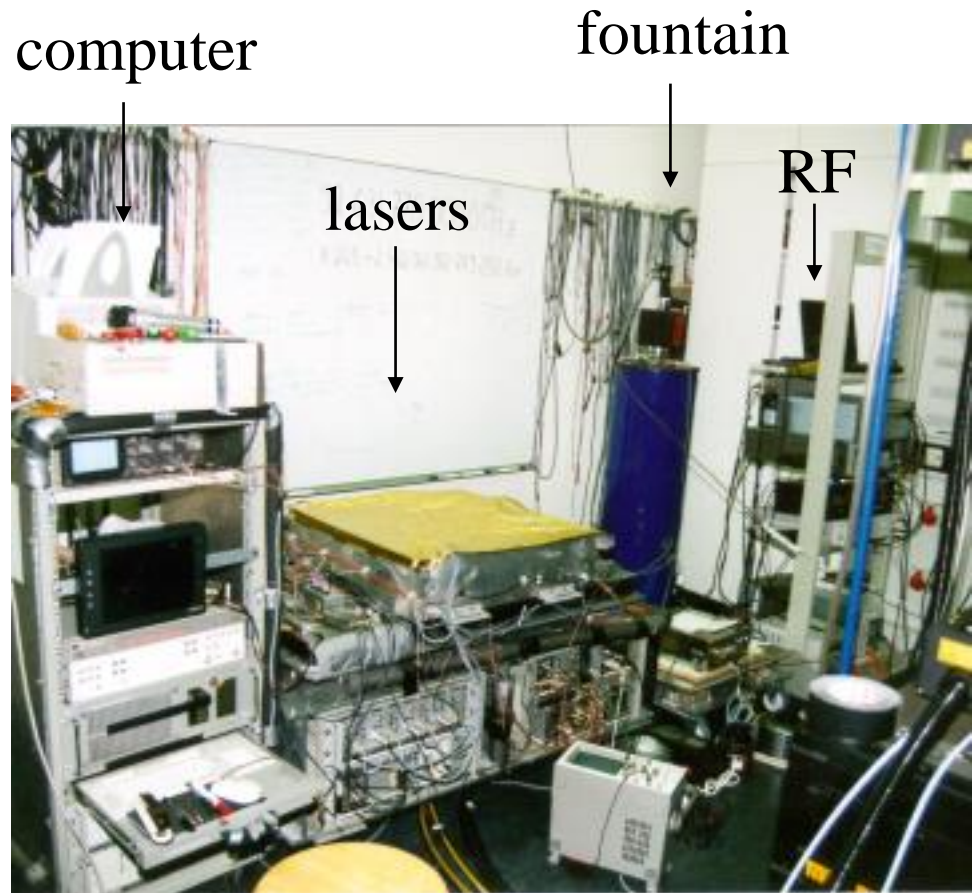
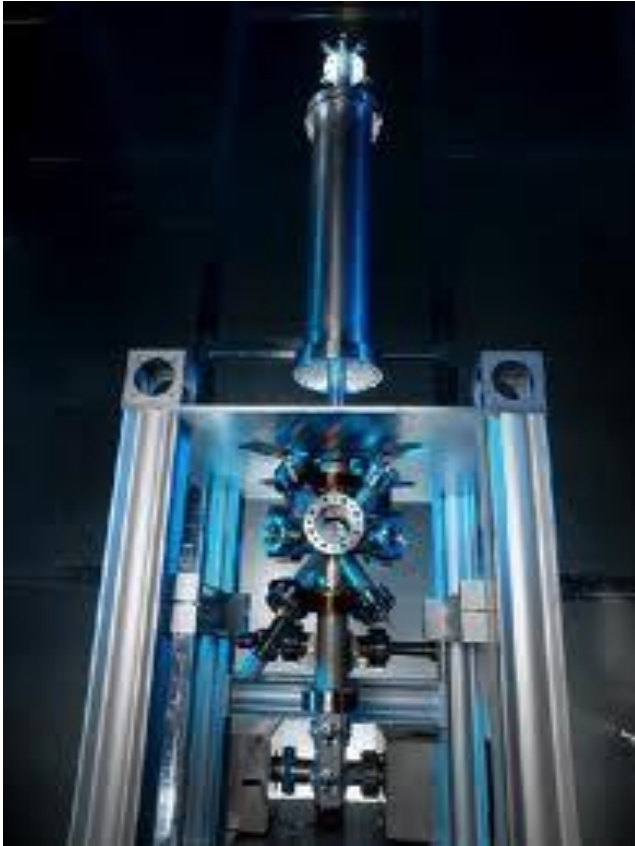
Cs beam clock



Cs fountain clock

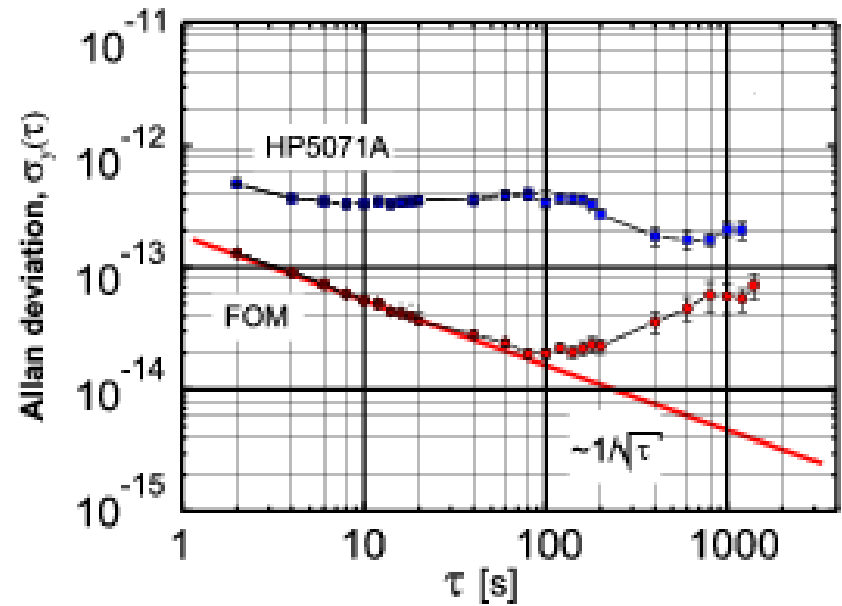
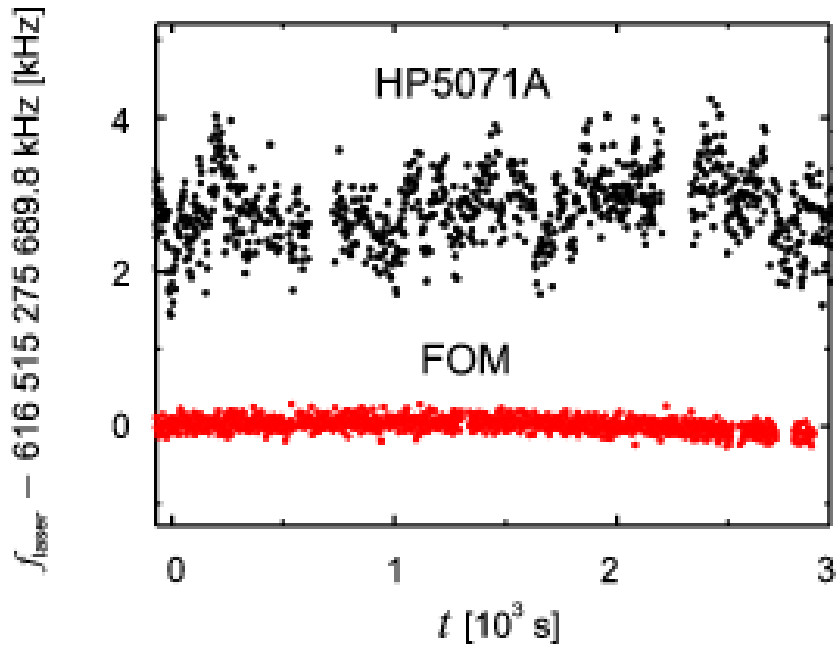


Cs fountain clock



BNM-SYRTE, Observatoire de Paris

Performance



Today's best accuracy 2×10^{-16}