Multi-level atom



- F=1/2 in ground level.
- F'=3/2 in excited level.



Multi-level atom



AC Stark Shift in Polarization Gradient Lattice



AC Stark Shift in Polarization Gradient Lattice



Sisyphus Cooling



Sisyphus Cooling



Sisyphus Cooling



Cooling Force (Doppler + Sisyphus)



[[]figure adapted from Laser Cooling and Trapping by H. Metcalf and P. van der Straten, Springer (1999)]