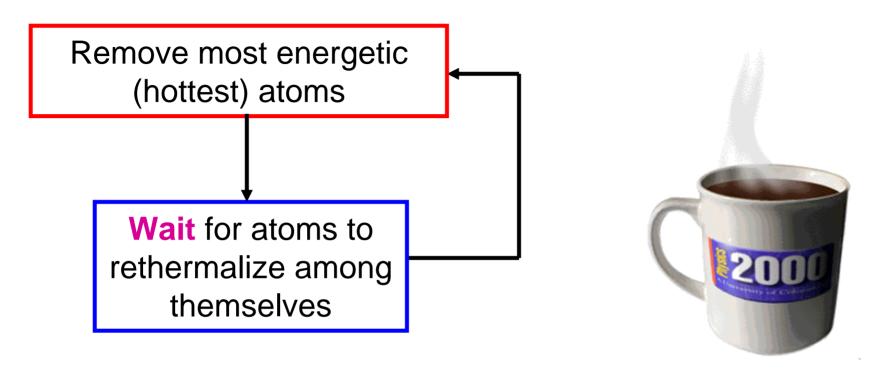
#### **Important Dates**

- 1. Oral presentations on Monday, April 23.
- 2. Outline + Figures due on Monday, April 16.
- 3. First draft of paper due on the day of oral presentation.
- 4. Final version of paper due on April 27.

### **Evaporative Cooling**

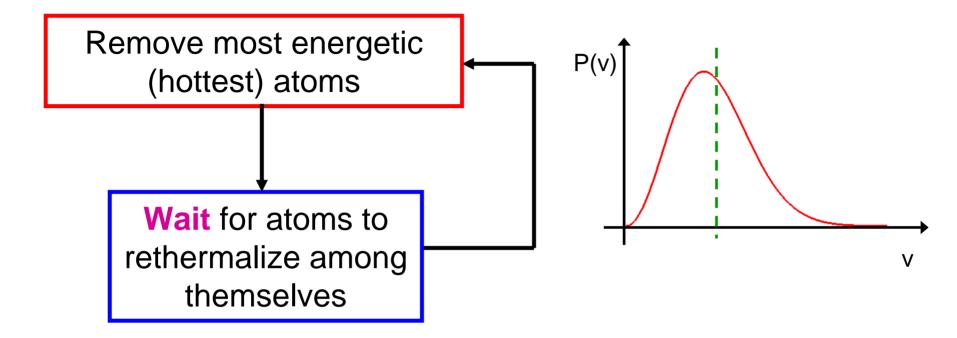


Wait time is given by the elastic collision rate  $k_{elastic} = n \sigma v$ 

**Macro-trap:** low initial density, evaporation time ~ 10-30 s.

Micro-trap: high initial density, evaporation time ~ 1-2 s.

#### **Evaporative Cooling**

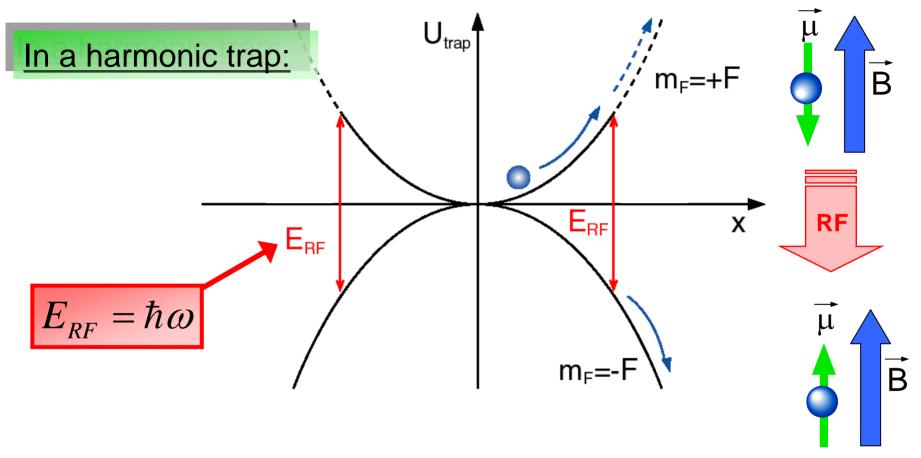


Wait time is given by the elastic collision rate  $k_{elastic} = n \sigma v$ 

**Macro-trap:** low initial density, evaporation time ~ 10-30 s.

Micro-trap: high initial density, evaporation time ~ 1-2 s.

#### **RF** Evaporation



- > RF frequency determines energy at which spin flip occurs.
- Sweep RF between 1 MHz and 30 MHz.

