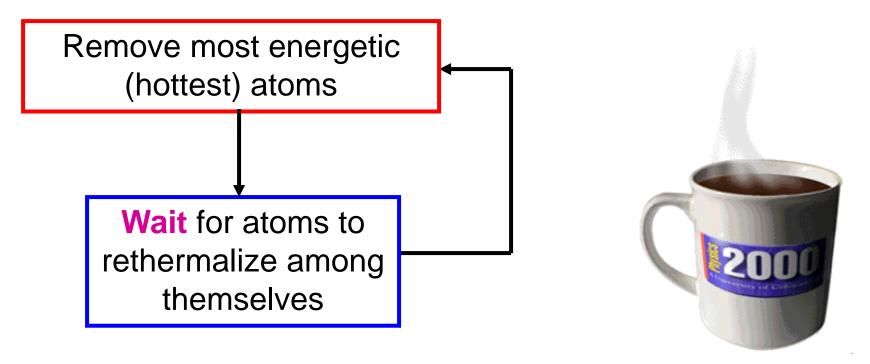
#### **Important Dates**

(undergraduate students)

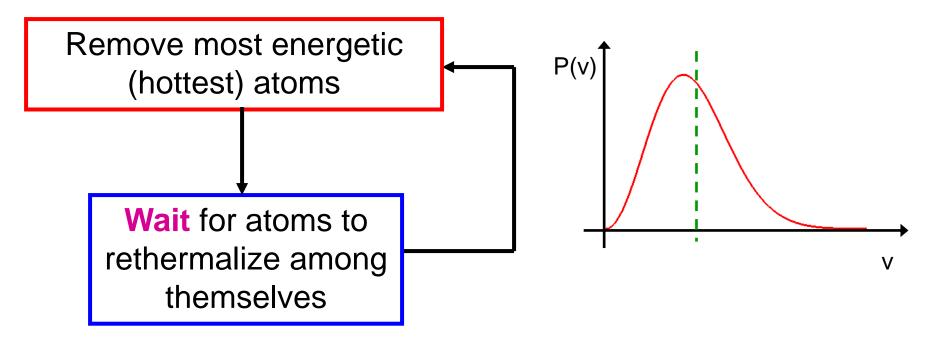
- 1. Oral presentation on Tuesday, April 30.
- 2. Outline + Figures due on Thursday, April 25.
- 3. First draft of paper due on the day of oral presentation.
- 4. Final version of paper due on Thursday, May 2.

### **Evaporative Cooling**



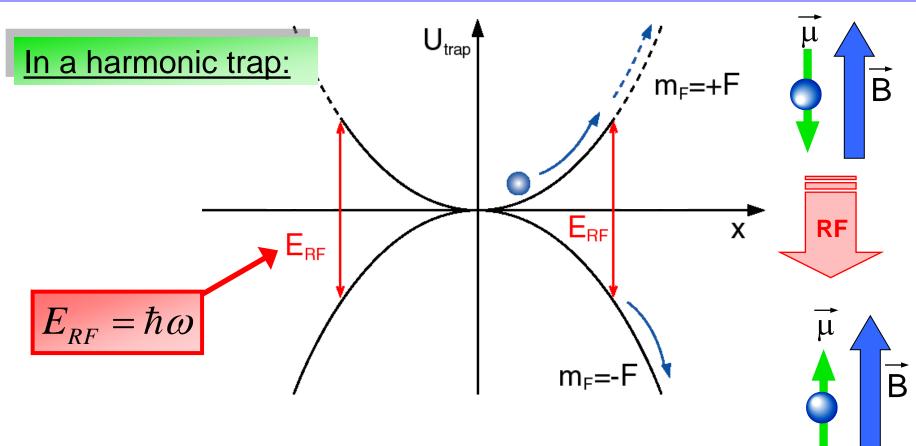
Wait time is given by the elastic collision rate  $k_{elastic} = n \sigma v$ Macro-trap: low initial density, evaporation time ~ 10-30 s. Micro-trap: high initial density, evaporation time ~ 1-2 s.

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# **RF Evaporation**



RF frequency determines energy at which spin flip occurs.

➢ Sweep RF between 1 MHz and 30 MHz.

