

## CHAPTER 19

### Reading: Chapter 19, The Particle Kinetics of Plasma

#### Problems

- A. DO one of:
  - 1. Exercise 19.1 Boundary of degeneracy; OR
  - 2. Exercise 19.6 Parameters for various plasmas
- B. DO one of:
  - 1. Exercise 19.5 Stopping of  $\alpha$ -particles, OR
  - 2. Exercise 19.7 Equilibration time for a globular star cluster
- C. DO one of:
  - 1. Exercise 19.4 Dependence of thermal equilibration on charge and mass; OR
  - 2. Exercise 19.11 Adiabatic indices for rapid compression of a magnetized plasma
- D. DO one of:
  - 1. Exercise 19.8 Thermoelectric transport coefficients; OR
  - 2. Exercise 19.12 Mirror machine