

Physics 136c

Homework associated with **Chapter 21**, Kinetic theory of Warm Plasmas

Handed out April 18, 2001

Due, April 25

To be graded by Xinkai Wu

As usual, if any problem is trivial for you, do not do it – simply state that it is trivial and pick some other problem or make up your own. Ex 21.10 should only require a few lines but is included to get you to read and think through the relevant section. (Tokamak characteristics are in Ch 19).

1. Ex. 21.4 (Landau contour), Blandford & Thorne
2. Ex 21.6 (Dispersion relationship for Non-Maxwellian) B&T
3. Ex 21.7 (Penrose criterion), B & T
4. Ex 21.10 (Correlations in a Tokamak plasma) B&T