

Reading: This week: K&K, Chapter 3.
Next week: K&K, Chapter 4.

Problems: Due in Ph2 IN box across from 201 East Bridge, Thursday, 4/23/15.

III.1 Two State System. K&K 3.1.

III.2 Magnetic Susceptibility. K&K 3.2.

III.3 Harmonic Oscillator. K&K 3.3.

III.4 Rotation of Molecules K&K 3.6.

III.5 Zipper / DNA model. K&K 3.7.

The following two problems are useful as a warm-up / to provide some insight for our imminent exploration of quantum gases and Johnson noise in resistors.

III.6 Quantum Concentration K&K 3.8.

III.7 One Dimensional Gas K&K 3.11.