

ENEE 496 Lasers and Electro-Optic Devices

Homework #3

Due 3/12/02

Do the following problems from Chapter 2 of the book.

(2.8), (2.9), (2.10)

A “soft” collision interrupts the phase of an emitting atom and leads to a Lorentzian lineshape. Prove this numerically by creating a waveform numerically with random phase interruptions and taking its FFT.