

ECE 656: Fall 2009
Lecture 20 Homework

- 1) It is tempting to estimate the momentum relaxation time, $\langle\langle\tau_m\rangle\rangle$, from the mobility and then to multiply by a velocity to get the mean-free-path. Give the correct expression for the mfp for backscattering in 2D – in terms of $\langle\langle\tau_m\rangle\rangle$ as extracted from the measured mobility.