

Phys 375 HW 5
Fall 2010
Due 1 November, 2010

1. Pedrotti³, 3rd edition, problem 8-1
2. One of the mirrors of a Michelson Interferometer is moved, and 1000 fringe-pairs, bright and dark, shift past the hairline in a viewing telescope during the process. If the device is illuminated with 500 nm light, how far has the mirror moved?
3. Pedrotti³, 3rd edition, problem 8-5
4. A form of the Jamin Interferometer is illustrated below. How does it work? To what use might it be put?

