LABORATORY MANUAL

Phys 195: Waves and Fields
Spring 2005

Department of Physics
Hamilton College
Table of Contents

0. Excel and Maple reference
1. Energy Conservation and Uncertainty
2. Pendula and \( g \)
3. Resonance in a mechanical system
4. Waves on a string
5. Speed of Sound
6. Electric Field Mapping
7. Simple Circuits
8. Magnetic Field Mapping
9. \( qv \times B \) Force
10. Induction
11. Snell’s Law
12. Thin Lenses
13. Interference and Diffraction