

Laboratories for Physics 309

1. STR Virtual Relativity Lab (RTR)
2. Michelson Interferometer (HeNe Laser)
3. Planck's Constant (Photoelectric Effect)
4. Thomson Experiment (e/m_e)
5. Millikan Oil Drop Experiment (e)
6. Electron Diffraction (Mater Waves)
7. Electron Spin Resonance (ESR)
8. Nuclear Magnetic Resonance (NMR)
9. Quantum Dots (Nanotechnology)

Labs 4, 5, 7 & 8 are “double labs” and will take about 2 lab sessions (2 weeks) each to complete.

The last week of class the lab manual is due for final grading, along with a two (2) page summary of your experience in the modern physics lab.