

Topic	Name	Student-ID #	email-address
<b>1. Elementary Particles, Nuclei and Atoms</b>			
1.1 Neutrino Oscillations			
1.2 Atomic clocks			
1.3 Neutron Interferometer			
1.4 Spectroscopic measurement on a Neutron beam			
1.5 Analysis of a Stern-Gerlach Experiment			
1.6 Measuring the Electron Magnetic Moment Anomaly			
1.7 The spectrum of Positronium			
1.8 Energy loss of ions in matter			
<b>2. Quantum Entanglement and Measurement</b>			
2.1 The EPR Problem and Bell's inequality			
2.2 Schrödinger's cat			
2.3 Quantum cryptography			
2.4 Direct observation of field quantization			
2.5 Ideal quantum measurement			
2.6 The quantum eraser			
2.7 A quantum thermometer			
<b>3. Complex Systems</b>			
3.1 Properties of a Bose-Einstein Condensate			
3.2 Magnetic Excitons			
3.3 A quantum box			
3.4 Quantum reflection of atoms from a surface			
3.5 Laser cooling and Trapping			
3.6 Bloch Oscillations			