

Physics 493L: Homework #3
Due March 7, 2014
10 points

For the remaining part of the semester you and your lab partner will develop and perform your own experiment. In addition to interesting physics, your project must include non-trivial elements of: 1) Computer control of instrumentation; 2) Statistical analysis of data; and 3) Circuit design and implementation. Before you begin, discuss with the instructor your idea. Not all ideas may be possible due to constraints on time, available equipment and budget. To solidify your project, you must submit a one page proposal that addresses each of the above elements. Include any references that would help to convince the instructor about the feasibility of your experiment. Only one report for each team is required. Divide your proposal in into four sections:

1. Physics
2. Computer control of instrumentation
3. Statistical analysis of data
4. Circuit design and implementation

Be as detailed as possible, but restrict your proposal to one page. Submit a PDF document with following naming convention: 'Smith and Anderson HW3.pdf. Submit your results by e-mail to klidke@unm.edu with the subject line '493L HW3.'