Physics 307 -Intermediate Laboratory - Fall 2015

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Note: Lab Weeks begin on Tuesday and end on Monday. Tuesday & Wednesday students (with an additional lab period) may do experiment 2 for Extra Credit. Monday & Thursday students may do experiment 2 during the Make-up periods.

| Week | Begins on | Group | <u> </u> | Group II | | |
|---------------|---|-------------------------------------|--------------|----------|--|--|
| 1 | 8 Sept. | 1 | Introduction | 7 | | |
| 2 | 15 Sept. | 1 | | 7 | | |
| 3 | 22 Sept. | 3 | | 4 | | |
| 4 | 29 Sept. | 3 | | 4 | | |
| 5 | 6 Oct. | 5 | | 6 | | |
| 6 | 13 Oct. | 5 | | 6 | | |
| 7 | 20 Oct. | 6 | | 1 | | |
| 8 | 27 Oct. | 6 | | 1 | | |
| 9 | 3 Nov. | 4 | | 3 | | |
| 10 | 10 Nov. | 4 | | 3 | | |
| 11 | 17 Nov. | 7 | | 5 | | |
| 12 | 24 Nov. | 7 | | 5 | | |
| 13 | 1 Dec. | 7(or 2) | | 5 (or 2) | | |
| 14 | 8 Dec. | 2 | Made-ups | | | |
| 15 | 15 Dec.(Tuesday only, last day) | | Make-ups | 2 | | |
| <u>Number</u> | Experiments | | | | | |
| 1 | Elements of Gamma-ray Counting and γ-ray Spectroscopy | | | | | |
| 2 | Frank-Hertz Experiment | | | | | |
| 3 | Probability Distributions and Decay of Excited Quantum States | | | | | |
| 4 | Photoelectric Effect | | | | | |
| 5 | Attenuation of Gamma-ray | Attenuation of Gamma-rays in Matter | | | | |
| 6 | Planck's Law & Stefan-Bo | Planck's Law & Stefan-Botzmann Law | | | | |
| 7 | X-Ray Diffraction in Cryst | X-Ray Diffraction in Crystals | | | | |

All Lab Make-ups must be completed and submitted by 5 pm Wednesday Dec. 16.