

PHYSICS 514 – – FALL 2009

Current Research Instruments

Lecture: T θ – 9:50 - 11:10
 Room: Physics - P-125
 as of August 12, 2009, subject to change

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Week # Monday date	Tuesday	Thursday	Homework
I 8/31	Vacuum I (Metcalf)	Vacuum II (Metcalf)	
II 9/7	Vacuum III (Metcalf)	Feedback and Control (Metcalf)	
III 9/14	Signals and Noise (Metcalf)	Accelerators (Metcalf)	
IV 9/21	Our Tandem (Metcalf and Lefferts)	Tour of Accelerator (Lefferts)	Feedback & Control papers due
V 9/28	NO CLASS Monday Schedule	Mariachi (TBA)	
VI 10/5	Temperatures High and Low (Metcalf)	Liquefying Helium (Graf)	Nuclear and accelerator papers due Tuesday
VII 10/12	Tour Helium Liquefier (Davis)	Atomic Structure (Metcalf)	
VIII 10/19	Advanced Technology Lab (Davis)	Laser Teaching Center (Noé)	Low temp papers due
IX 10/26	Optical Instruments & Lasers (Metcalf)	Stabilized and tunable Lasers (Metcalf)	
X 11/2	Making a BEC (Schneble)	Ultrafast (Weinacht)	
XI 11/9	Tour of Laser Labs	Introduction to X-rays (Metcalf)	Lasers and Optical Instruments papers due
XII 11/16	Synchrotron Radiation (Metcalf)	X-ray Microscopy (TBA)	
XIII 11/23	Neutrinos (TBA)	Thanksgiving NO CLASS	
XIV 11/30	RHIC and PHENIX (TBA)	The ATLAS detector (TBA)	X-ray papers due
XV 12/7	Adaptive Optics (TBA)	Coronagraphy (TBA)	

(Required Statement)

Each student must pursue his or her academic goals honestly and be personally accountable for all submitted work. Representing another person's work as your own is always wrong. Any suspected instance of academic dishonesty will be reported to the Academic Judiciary. For more comprehensive information on academic integrity, including categories of academic dishonesty, please refer to the academic judiciary website at <http://www.stonybrook.edu/uaa/academicjudiciary/>