

PHYSICS 514 – – FALL 2008

Current Research Instruments

Lecture: T θ – 9:50 - 11:10
 Room: Physics - P-124
 as of November 6, 2008, subject to change

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Week # Monday date	Tuesday	Thursday	Homework
I 9/1	Organizational Meeting - intro	Vacuum I (Metcalf)	
II 9/8	Vacuum II (Metcalf)	Vacuum III (Metcalf)	
III 9/15	Feedback and Control (Metcalf)	Signals and Noise (Metcalf)	
IV 9/22	Accelerators & our Tandem (Metcalf and Lefferts)	Tour of Accelerator (Lefferts)	Feedback & Control papers due
V 9/29	NO CLASS Rosh Hashanna	Mariachi (Dima Vavilov)	
VI 10/6	Temperatures High and Low (Metcalf)	NO CLASS Yom Kippur	Nuclear and accelerator papers due Tuesday
VII 10/13	Liquefying Helium (Graf)	Advanced Technology Lab (Davis)	
VIII 10/20	Tour Helium Liquefier (Davis)	Atomic Structure (Metcalf)	Low temp papers due
IX 10/27	Optical Instruments & Lasers (Metcalf)	Stabilized and tunable Lasers (Metcalf)	
X 11/3	Making a BEC (Schneble)	Tour of Laser Labs	
XI 11/10	Laser Teaching Center (Noé)	Introduction to X-rays (Metcalf)	Lasers and Optical Instruments papers due
XII 11/17	Synchrotron Radiation (Metcalf)	X-ray Microscopy - I Bjorg Larson	
XIII 11/24	X-ray Microscopy - II Bjorg Larson	Thanksgiving NO CLASS	
XIV 12/1	RHIC and PHENIX Tom Hemmick	The ATLAS detector John Hobbs	X-ray papers due
XV 12/8	Adaptive Optics (Sivaramakrishnan)	Coronagraphy (Sivaramakrishnan)	
XVI 12/15	Neutrinos and Super-K Chang Kee Jung CLASS MEET MONDAY !!	NO CLASS	

(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/>