

Beam Diagnostics Using Synchrotron Radiation: Theory and Practice

Jeff Corbett, Alan Fisher and Walter Mok

US Particle Accelerator School

Sponsored by
University of California, Santa Cruz
Week 1: January 14-18, 2008

	<i>General Imaging</i>	<i>Gating/ Streak</i>	<i>Inter-ferometry</i>	<i>Fluctuations</i>	<i>Final</i>
	Mon 14	Tues 15	Wed 16	Thurs 17	Fri 18
9am	Introduction Imaging Electronic Imaging	SR and Timing Fast Camera Apps PI-Max Camera	Interferometers Theory Working Systems	Theory Experiments	Final Projects
12am	----- Lunch -----				
1:00pm	Pinhole Cameras	Lab Primer	Lab Primer	Lab Primer	course over
2:00pm	Discussion	Discussion	Discussion	Discussion	
3:00pm	Image Pinhole	Streak Gated	Simulate Lab	Simulate Lab	
6pm	Pinhole Image				
7pm	----- Dinner -----				
10pm	USPAS GUEST LECTURE	Gated Streak	Lab Simulate	Lab Simulate	

Groups rotate between labs and simulations

Grading

50% effort & creativity

25% lab work (group reports ok)

25% final project (group reports ok)

no formal homework sets - lab reports & final

steep curve - relax and enjoy yourself