

**QuarkNet Summer Institute 2000
Indiana University**

Week One

Monday June 12	Tuesday June 13	Wednesday June 14	Thursday June 15	Friday June 16	Saturday June 17
Morning 8:00 AM	Morning 8:30 AM	Morning 8:30 AM	Morning 8:30 AM	Morning 8:30 AM	Morning 9:30 AM
8:00 Social Time 8:30 Welcome & Introduction 8:45 Administrative details (paper work) 9:00 Institute Overview 9:30 Break 9:45 Tour of Swain facilities 11:15 PMT web site 12:00 Lunch Break	8:30 Q & A 8:45 Web Jump-Off <i>The Particle Adventure</i> 10:00 Standard Model Lecture—Mike Berger 11:00 Break 11:15 Create personal web page 12:00 Lunch Break	8:30 Q & A 8:45 OnScreen Trackmaker Lab Activity 1 10:00 Detectors—Rick Van Kooten 11:00 Break 11:15 Web Jump-Off <i>Detectors</i> 12:00 Lunch Break	8:30 Q & A 8:45 OnScreen Decay 1 Lab Activity 2 9:45 E/M demonstration 10:00 Beams and Accelerators—Bob Pollock 10:45 Web Jump-Off <i>Accelerators</i> 12:00 Lunch Break	8:30 Q & A 8:45 OnScreen Decay 1 continued and Particle Lifetime 10:30 Break 10:45 Web Jump-Off <i>Home Page Development/Open Web Time</i> 12:00 Lunch Break	9:30 Tour of Fermilab 11:30 Meet with QuarkNet Liaison 12:00 Lunch Break
Afternoon 1:00 PM	Afternoon 1:00 PM	Afternoon 1:00 PM	Afternoon 1:00 PM	Afternoon 1:00 PM	Afternoon 1:00 PM
1:00 Q & A 1:15 PMT/Scintillation Plateau 2:00 Plateau PMTs—Prepare data for Web 4:00 Social gathering at Dave Blair's home	1:00 Q & A 1:15 Mini-Talk Photon interactions 1:45 Calibrate PMT Scintillators using gamma sources	1:00 Q & A 1:30 Tour of IUFC 3:30 Continue Calibrations	1:00 Q & A 1:15 Mini-Talk Charged Particle Interactions 1:45 Electrons in Scintillators Exploring a Beta Spectrum	1:00 Q & A 1:15 Mini-Talk-Logic gating and cosmic muons 1:45 Scintillators in coincidence-counting cosmic muons 3:30 Leave for Fermilab	1:00 Detector tour-D0 and CDF 3:30 Leave for Bloomington

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Week Two

Monday June 19	Tuesday June 20	Wednesday June 21	Thursday June 22	Friday June 23
Morning 8:30 AM	Morning 8:30 AM	Morning 8:30 AM	Morning 8:30 AM	Morning 8:30 AM
8:30 OnScreen Decay 1 10:00 Light Quark Physics—Alex Dzierba 11:00 Transfer model 12:00 Lunch Break	8:30 Classroom Transfer • OnScreen • Grant application for classroom project • Other projects... 10:00 Lepton Collider Experiments—Rick Van Kooten 11:00 Continue Transfer 12:00 Lunch Break	8:30 Classroom Transfer • OnScreen • Grant application for classroom project • Other projects... 10:00 Hadron Collider Experiments-- Herald Ogreen 11:00 Continue Transfer 12:00 Lunch Break	8:30 Classroom Transfer • OnScreen • Grant application for classroom project • Other projects... 10:00 Astrophysics Lecture—Mike Barnett 11:00 Continue Transfer 12:00 Lunch Break	8:30 Classroom Transfer • OnScreen • Grant application for classroom project • Other projects... 11:00 Report to group on Transfer Project 12:00 Lunch Break
Afternoon 1:00 PM	Afternoon 1:00 PM	Afternoon 1:00 PM	Afternoon 1:00 PM	Afternoon 1:00 PM
1:00 Q & A 1:15 Collect and analyze cosmic ray data Preparing to take data with a Spectrograph	1:00 Q & A 1:15 Collect and analyze cosmic ray data Preparing to take data with a Spectrograph	1:00 Q & A 1:15 Collect and analyze cosmic ray data Preparing to take data with a Spectrograph	1:00 Q & A 1:15 Collect and analyze cosmic ray data Preparing to take data with a Spectrograph	1:00 Complete Research Project 3:00 Follow-up Days Institute Evaluation