

QUARKNET WORKSHOP
Department of Physics and Astronomy
University of Mississippi

JUNE 23-25, 2008

Monday June 23

Morning

8:00 - 9:00 AM Registration (Tutoring - Room 104 Lewis Hall)
9:00 AM- 12:00 PM Introduction

Particle Journey — Dr. Cremaldi
Fermilab and the Top Quark — Dr. Quinn
Neutrinos and the Sun — Dr. Summers

Lunch at Johnson Commons

Afternoon

1:00 pm - LHC and Analysis of Higgs and Black Hole Events (Physics Labs Rm 103A/B)

CMS Detector and the Higgs Discovery
Particle Physics Detectors TK, ECAL, HCAL, Muons — Dr. Kroeger
Higgs Decay Software — Peter Sonnek
Dark Matter Activity — Ken Wester

2:00 pm Master Class for Teachers (Part I) **Ken Cesire** (Rm 228 Lewis Hall)

Tues June 24

Morning

9:00 University Welcome
9:30 Analysis of Higgs and Black Hole Events (Physics Labs Rm 103A/B)
11:00 Master Class for Teachers (Part II , Room 228 Lewis Hall)

Lunch (Room 101 Lewis Hall)

Afternoon

1:00 PM — Cloud Chambers and Cosmic Ray Detectors (Optics Lab Room)

Evening — Evening Astronomy

Wed June 25

Morning

9:00 - 11:00 Gravity and LIGO Room 101
 Black Holes — Dr. Cavaglia
 Gravity Waves — Dr. Cavaglia

11:00 — Reports on Data Analysis & wrap-up
 Working Group-1 higgs → $\gamma\gamma$
 Working Group-2 higgs → 4 leptons
 Working Group-3 higgs → 4 jets
 Working Group-4 higgs → 2 leptons + 2 jets
 Working Group-5 bh → 4 leptons

12:00 Wrap-up