

First Biennial African School on Fundamental Physics and its Applications

Sunday, August 1, 2010 - Saturday, August 21, 2010

NITheP at Stellenbosch, South Africa

Scientific Program

FIRST WEEK (2-6th august 2010)

Lectures and Discussion Sessions on the Theoretical aspects of:

- . Particle Physics
 - . Nuclear Physics
 - . Hot and Condensed Nuclear Matter
 - . Astrophysics & Cosmology
 - . Monte Carlo Generators
- Computer Lab on MC Generators

SECOND WEEK (9-13th august 2010)

Lectures and Discussion Sessions on the Experimental aspects of:

- . Particle Physics
 - . Nuclear Physics
 - . Hot and Condensed Nuclear Matter
 - . Astrophysics & Cosmology
 - . Computing in HEP
- Computer labs on introductions to ROOT and the GRID

THIRD WEEK (16-20th august 2010)

Lectures and Discussion Sessions on the Experimental aspects of:

- . Beam Optics
 - . Accelerator Physics
 - . Instrumentation
 - . Laser Driven Plasma Accelerators
 - . Magnetic Confinement Fusion
 - . Medical Applications of Particle Beams
- Practice labs on:
- . Particle Detectors
 - . Laser Physics
- Computer lab on GEANT4 (TBC)