

Workshop programme

International Workshop on recent LHC results and related topics.

8-9 October 2012, Tirana, Albania

Topics

The LHC project
Higgs search
Lattice QCD
Development on Astrophysics
Experimental techniques in Physics

Organizing committee

C. Alexandrou (Cyprus)
A. Borici (Tirana) Co-chair
B. Cico (Tirana)
D. Denegri (CERN)
L. Dobrzynski (Paris) Co-chair
M. Hafizi (Tirana)
G. Iaselli (Bari)
Th. Karaja (Tirana)
M. Koni (Tirana)
R. Mochkovitch (Paris)
V. Tahiri (Vlora)



The workshop will take place in the

*University of Tirana's Senate conference hall
Mother Theresa square
Tirana, Albania*

Day 1
Monday, 8 October

Registration

9:30 - 10:00

Official welcome speeches and Greetings

10:00 - 11:00

Chair : Prof. Mynyr Koni

Tirana' University official
Representative of the French Embassy
Representative of the Italian Embassy

10:30 **Prospects in High Energy Physics** D, Denegri CERN/IRFU, Saclay, France

Coffee Break 11:00 - 11:30

Session 1: Overview of the Astrophysics and Lattice field worlds.

11:30 - 13:30

Chair: Prof. Artan Boriçi

11:30 Lattice computations for high energy physics,
Karl Jansen, Desy Zeuthen, Germany

12:10 Understanding the physics of gamma-ray bursts: where do we stand ?,
Robert Mochkovitch, Institut d'Astrophysique, Paris, France

12:50 Searching for dark baryons in galaxies,
Francesco De Paolis, Universita di Lecce, Italy

Lunch Break 13:30 - 14:30

Session 2: Lattice QCD.

14:30 - 15:50

Chair: Prof. Karl Jansen

14:30 Hadron Structure and Strong Interaction constants from Lattice QCD,
Antonios Tsapalis, Athens, Greece

15:10 Quark-antiquark potential from fermiQCD,
Dafina Xhako, Tirana University, Albania

15:30 Hadron spectrum from fermiQCD,
Rudina Zeqirllari, Tirana University, Albania

Coffee Break 15:50- 16:15

Session 3: Development on Astrophysics

16:15 - 17:45

Chair: Prof. Mimoza Hafizi

16:15 Free-floating planets, microlensing method and Euclide mission,
Lindita Hamolli, Tirana University, Albania

16:35 Spectrum-energy relations of long GRBs,
Sonila Boçi, Tirana University, Albania

16:55 Albania and Astrophysics,
Mimoza Hafizi, Tirana University, Albania

17:20 The origin of the prompt emission: internal shocks or something else?
Robert Mochkovitch, Institut d'Astrophysique, Paris, France

Session 4: Poster session

17:45 - 19:30

Chair: Prof. Valbona Tahiri

Day 2
Tuesday, 9 October

Session 1: *The LHC project*

9:00 - 11:00

Chair: Prof. Betim Cico

9:00 LHC : Description, performances and prospects,
Tadeusz Kurtyka, CERN

9:50 LHC detectors,
Ludwik Dobrzynski, Ecole polytechnique, Palaiseau, France

Coffee Break 11:00 - 11:30

Session 2: LHC. Contribution to Physics

11:30 - 13:00

Chair : Prof. Giuseppe Iasseli

11:30 Physics of LHC,
Daniel Denegri CERN/IRFU, Saclay, France

12:15 Search for Higgs at the LHC,
Nicola De Filippis, Bari, Italy

Lunch break 13:00 - 14:30

Session 3 : *Experimental techniques in Physics*

14:30 - 17:00

Chair: Prof. Daniel Denegri

14:30 Basic detector instrumentation for high energy physics.
Giuseppe Iaselli,, Bari, Italy

15:15 Basis electronic concepts for particle physics and beyond,
Flavio Loddo, Bari, Italy

16:00 FPGA techniques in Albania et it's usage in Physics,
Betim Cico, Polytechnic University, Tirana

16:30 Computing developments in Albania, at it's application in Physics,
Neki Frasher, Polytechnic University, Tirana

Coffee Break 17:00 - 17:30

Session 4: *CERN, POLIBA, France and Albania perspectives,*

17:30 - 19:00

Chair: Prof. Theodhor Karaja

17:30 Computing at the LHC,
Ludwik. Dobrzynski, Ecole polytechnique, Palaiseau, France

18:00 Cern Perspectives,
Tadeusz Kurtyka CERN

18:15 Present status of physics in Albania and perspectives,
Artan Boriçi, Tirana,Albania

18:30 Panel discussion

19:00 End of workshop