

21/02/2018

PRELIMINARY SCIENTIFIC PROGRAMME

Monday, February 26

I. Cosmology and Astroparticle Physics

8:30-11:30

GWs from coalescing binaries: experimental aspects and recent results

Gianluca Gemme, Genova

GWs from coalescing binaries: the theory

Alessandro Nagar, Torino

Detecting gravitational waves with atomic sensors

Guglielmo Tino, Firenze

COFFEE BREAK

The smoking guns of n^*n^* mergers

Arnon Dar, Haifa

Cosmology with the CMB: Planck and beyond

Paolo Natoli, Ferrara

10 years in space: highlights of Fermi-LAT science

Francesco De Palma, Bari

II. Neutrino Physics

16:30-18:25

ANTARES/KM3

Giulia Illuminati, Valencia

Progress in Neutrino physics

Carlo Giunti, Torino

BREAK

Study of Cosmic Rays anisotropy with the Auger Observatory

Jonathan Biteau, Orsay

Search for neutrino double-beta decay with CUORE

Irene Nutini, GSSI

Young Scientists Forum (I)

18:25-19:00

CMB cosmology with Planck

Marina Migliaccio, ASI

Low temperature electroweak phase transition with hidden scale invariance

Cyril Lagger, Sydney

Search for high-mass resonances in the dilepton final state in p-p collisions at $\sqrt{s}=13$ TeV

Filippo Errico, Bari

Tuesday, February 27

III. Dark Matter Searches

8:30-11:30

Search for dark matter with the XENON1T detector

Guillaume Eurin, Heidelberg

Black Holes as DM candidates

Davide Racco, Geneva

Hunting DM with gravitational waves

Alfredo Urbano, Trieste

COFFEE BREAK

LHCb/TOTEM/LHCf inputs to astrophysics

Valery Zhukov, Aachen

Relativistic kinematics, cosmic rays and gamma-ray bursts

Alvaro De Rujula, CERN

Review Results from DAMPE

Giovanni Ambrosi, Perugia

IV. Dark Matter and Neutrino Physics

16:00-17:30

Study of neutrino CPV with the T2K experiment

Lorenzo Magaletti, Bari

Newest Results from NOVA on ν oscillation

Luke Vinton, Sussex

Towards a Future Muon Collider

Pantaleo Raimondi, ESRF

MuOne

Fulvio Piccinini, Pavia

BREAK

Young Scientists Forum (II)

17:30-18:30

Sneutrino Dark Matter in the BLSSM

Simon King, Southampton

Mixing and CP violation in charm

Louis Henry, Valencia

Measurement of P_s

Miriam Lucio Martinez, Santiago

V. Heavy Ions

18:30-19:20

Heavy ion physics at ATLAS, CMS and LHCb

Michael Schmelling, Heidelberg

Wednesday, February 28**VI. Heavy Flavour Spectroscopy****8.30-12:00**

Heavy flavour spectroscopy at ATLAS, CMS and LHCb

Matthew Charles, Paris

Heavy Flavour Physics at the Tevatron

*Diego Tonelli, Trieste***COFFEE BREAK**

Lepton-flavour universality tests at LHCb

Marta Calvi, Milano

NP effects in B-physics

Nazila Mahmoudi, Lyon

Flavour Constraints on NP

Luca Silvestrini, Roma

Status and perspective of Belle II at SuperKEKB

Pavel Krokovny, Budker

Measurements of CP violation at the LHC

*Diego Tonelli, Trieste***VII. Flavour Physics and Rare Decays****16.00-18.50**

Study of rare heavy flavour decays at the LHC

*Giulio Dujany, Paris*First evidence for $\cos(2\beta) > 0$ at BaBar and Belle*Markus Roehrken, CERN*

Models for B-physics anomalies

*Dario Buttazzo, Pisa***BREAK**

Light New Physics

Maxim Pospelov, Perimeter $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ decays and NP searches at NA62*Silvia Martellotti, LNF***VIII. Physics and Society****18:50-19:30**

Fake News and Science, a social and educational challenge

Lorenzo Magnea, Torino

Discussion

Thursday, March 1**X. QCD and Electroweak Physics and Top Physics****8:30-11:30**

QCD in gauge-boson production at the LHC

Matthias Schott, Mainz

Top production at the LHC (joint talk)

Geoffrey Gilles, Wuppertal

Top Physics at the Tevatron

*Sandra Leone, Pisa***COFFEE BREAK**

BESIII Study of XYZ Status

*Yutie Liang, Giessen*TOTEM Measurements of ρ , σ_{el} , s_{tot} *Nicola Turini, Siena*

EWK Measurements at the Tevatron

*Breese Quinn, Mississipi Univ.***IX. Special Session****16:00-17:00**

Testing Naturalness

Ian Low, Northwestern

INFN Initiatives Towards Future Accelerators

*Fernando Ferroni, Roma***BREAK****X. QCD and Electroweak Physics and Top Physics - continued****17:15-18:30**

Electroweak physics at the LHC

Philip Sommer, Sheffield

Exotic Decays at NA62

Tommaso Spadaro, LNF

NP searches in EW physics

*David Marzocca, Trieste***Young Scientists Forum (III)****18:30-19:15**Evidence for the H to $b\bar{b}$ decay with the ATLAS detector*Changqiao Li, Hefei*

21/02/2018

Search for single production of vector-like quarks decaying to a b quark and a Higgs boson
Measurement of the top quark pair-production in association with a W or Z boson in pp collisions at 13 TeV with full 2016 dataset at CMS experiment
Search for direct top squark pair production in events with a Higgs or Z boson, and missing transverse momentum in $\sqrt{s}=13$ TeV pp collisions with the ATLAS
Search for heavy neutral leptons (sterile neutrinos) with the CMS detector

Giorgia Rauco, Zürich
Illia Khvastunov, Ghent
Gabriele D'Amen, Bologna
Martina Vit, Ghent

Friday, March 2

XI. Searching for New Physics

8.30-11.45

Measurement of Higgs Production Cross-Sections and Couplings
Direct and indirect probes of the Higgs Yukawa couplings
Search for dark matter production at ATLAS and CMS (joint talk)
DM at colliders

Silvio Donato, Zürich
Uli Haisch, Oxford
Alexander Grohsjean, DESY
Pedro Schwaller, Mainz

COFFEE BREAK

Higgs properties and decays, searches for high mass Higgs boson and di-Higgs production
Collider implication of flavor anomalies
Searches for Rare Top Processes and Decay and Third Generation SUSY

Luca Cadamuro
Marco Nardecchia, Trieste
Stefano Zambito, Harvard

XI. Searching for New Physics - continued

Searches for Electroweak and Strong SUSY (joint talk)
Searches for long-lived particle decays at the LHC (joint talk)
Searches for high-mass resonances in bosons and leptons (joint talk)
Searches for electroweak Higgsino production in compressed scenarios with ATLAS

Santiago Folgueras, Oviedo
Simone Gennai, Milano
John Alison, Chicago
Maximilian J. Swiatlowski

BREAK

Young Scientists Forum (V)

18:25-19:10

Lepton-Flavour universality tests with semitauonic decays
Measurement of the $t\bar{t}\gamma$ production cross section in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector
Clockwork theory and phenomenology

Christos Hadjivasiliou, Clermont-Ferrand
Joshua Wyatt Smith, Hefei
Daniele Teresi, Brussels

Saturday, March 3

X. Perspectives

9:00 – 10:30

Darkside new results and prospects
Probing the dark sector with PADME
Search for Sterile Neutrino with Danss

Matteo Cadeddu, Cagliari
Mauro Raggi, Roma
Michael Danilov, LPI Moscow