

28/02/2017

PRELIMINARY SCIENTIFIC PROGRAMME

Monday, March 6

I. Cosmology and Astroparticle Physics

8.30-11.30

Physics of gravitational waves	<i>Valeria Ferrari, Roma</i>
Towards space based gravitational wave detection	<i>Gudrun Wanner, Hannover</i>
COFFEE BREAK	
On the relaxation of the cosmological constant	<i>Enrico Trincherini, Pisa</i>
GeV gamma-rays from the Galactic Center: diffuse emission, unresolved sources and Dark Matter contributions	<i>Dmitry Malyshev, Erlangen</i>
Primordial Black Hole Formation	<i>Alexander Dolgov, Ferrara</i>
Cosmology with the CMB: Planck and beyond	<i>Paolo Natoli, Ferrara</i>

II. Neutrino Physics

16.00-19:00

Overview on neutrino electromagnetic properties	<i>Alexander Studenikin, MSU /JINR</i>
More results from the OPERA experiment	<i>Giuliana Galati, Napoli</i>
Recent progress in neutrino physics: a theoretical overview	<i>Pilar Hernandez IFIC</i>
Newest NOVA results on θ_{13} and CPV in neutrino sector	<i>Evan Niner, FNAL</i>
Results and perspectives from T2K on CPV in neutrino sector	<i>Anna Dabrowska, Cracow</i>
Short distance neutrino oscillations with Borexino	<i>Barbara Caccianiga, Milano</i>
Measurement of the PMNS matrix element θ_{13} and CPV parameters with Double Chooz	<i>Anthony Onillon, APC</i>

Tuesday, March 7

III. Dark Matter Searches

8.30-11-30

Theoretical models for Dark Matter	<i>Giorgio Busoni, Melbourne</i>
Dark Matter models beyond the WIMP paradigm	<i>Michael Baker, Mainz</i>
Dark Matter and Composite Weak Bosons	<i>Harald Fritzsch, Munich</i>
COFFEE BREAK	
Status and perspectives of the DARKSIDE experiment at LNGS	<i>Paolo Agnes, Paris</i>
Status Report of the Xenon1T Experiment	<i>Julien Masbou, Subatech</i>
Prospects for direct dark-matter detection and 0n2b experiments	<i>Laura Baudis, Zurich</i>

IV. Dark Matter and Neutrino Physics

16.00-17:20

GERDA search for neutrinoless DB decay	<i>Marcin Misiaszek, Krakow</i>
Status and perspectives of CUORE experiment at LNGS	<i>Vivek Singh, Berkeley</i>

Young Scientists Forum

17:20-18:35

RH Neutrinos: Dark matter and LFV	<i>Meziane Chekkal, Oran</i>
Inclusive photon cross section at 13 TeV (ATLAS)	<i>Ana Rosario Cueto Gomez, Madrid</i>
Observation of the decay $X_{ib} \rightarrow pKK$	<i>Abhijit Mathad, Warwick</i>
Observation of the rare decays $\Lambda_b^0 \rightarrow p \pi^- \mu^+ \mu^-$	<i>Eluned Smith, Aachen</i>
W boson production in association with jets at CMS	<i>Kadir Ocalan, Konya</i>

V. Heavy Ions

18:35-19:30

Heavy-Ion Physics with ALICE	<i>Jochen Klein, CERN</i>
Heavy Ions at CMS	<i>Gabor Veres, CERN</i>

Wednesday, March 8

VI. Heavy Flavour Spectroscopy

8.30-12:00

BESIII - Overview (including hadron spectroscopy)	<i>Malte Albrecht, Bochum</i>
BESIII - Observation of charmoniumlike structure in $\psi(2S)$	<i>Yateng Zhang, HeFei</i>
Production of the Quarkonia States with the ATLAS Detector	<i>Lailin Xu, Brookhaven</i>
COFFEE BREAK	
Heavy flavour production and spectroscopy at LHCb	<i>Jolanta Brodzicka, Manchester</i>
Mixing and CP violation in D- and B-meson systems at LHCb	<i>Anita Nandi, Oxford</i>
Recent progress on lattice QCD for Kaon physics	<i>Xu Feng, Beijing</i>
New limits on heavy neutrino searches from NA62	<i>Karim Massri, CERN</i>

VII. Flavour Physics

16.00-18.00

The November 1974 revolution, charmonium and much more	<i>Alvaro De Rujula, CERN</i>
B-physics anomalies: SM vs NP	<i>Sébastien Descotes-Genon,</i>
Lepton Flavour Universality tests at LHCb:	<i>Stefanie Reichert, CERN</i>
New physics searches with $b \rightarrow sll$ transitions and rare decays at LHCb	<i>Kristof De Bruyn, Marseille</i>
NP in flavour observables	<i>Andreas Crivellin, PSI</i>

VIII. Special Session "Physics and Society"

18.00-19:30

SESAME: A source of light in the Middle East	<i>Zehra Sayers, Istanbul</i>
Pencilled-in Big Physics	<i>Vincenzo Palermo, Bologna</i>

Thursday, March 9

IX. QCD and Electroweak Physics

8.30-11.30

Progress in QCD for the LHC	<i>Fabrizio Caola, CERN</i>
Electroweak and QCD Physics at CMS	<i>Daniele Trocino, Northeastern</i>
Measurements of underlying event properties and pQCD with photons, jets and vector boson +jets with ATLAS	<i>Frank Siegert, Dresden</i>
Electroweak precision observables and Higgs signal strengths in the Standard Model and beyond: present and future	<i>Luca Silvestrini, Roma</i>
COFFEE BREAK	
Recent results from D0	<i>Boris Tuchming, Saclay</i>
Hadronic Contribution to $g-2$ of the Muon and the fine structure constant at the Z-Mass Scale	<i>Cesareo Dominguez, Cape Town</i>
The prediction of $g-2$ within the SM	<i>Gilberto Colangelo, Bern</i>

X. Electroweak and Top Physics

16.30-19.30

Standard-Model precision measurements with W and Z bosons using the ATLAS detector	<i>Vasiliki Kouskoura, Brookhaven</i>
Top, EWK and Recent Results from the Tevatron	<i>Donatella Lucchesi, Padova</i>
(H/125)SM boson measurements at CMS	<i>Martina Malberti, Milano</i>
Electroweak physics @ LHC as a BSM probe	<i>Francesco Riva, CERN</i>
Recent progress in top-quark physics and $t\bar{t}$	<i>Eleni Vryonidou, Nikhef</i>
Top Quark Measurements at CMS	<i>Denys Lontkovsky, Brussels</i>
Top production and top properties measurements with ATLAS	<i>Wolfgang Wagner, Wuppertal</i>

Friday, March 10

XI. Searching for New Physics	
8.30-11.30	
BSM Higgs boson searches at CMS	<i>Federica Primavera, LNF</i>
Dark Matter Searches at CMS	<i>Bhawna Gomber, Wisconsin</i>
Searching for Dark Matter beyond SUSY with the ATLAS detector	<i>Frederik Ruehr, Freiburg</i>
COFFEE BREAK	
Flavour anomalies vs. high-pT physics	<i>Admir Greljo, Zurich</i>
Strongly interacting BSM	<i>Francesco Sannino, Odense</i>
Searching for exotic physics with the ATLAS detector	<i>Pierre-Antoine Delsart, Grenoble</i>
New Physics (non-SUSY) Searches at CMS	<i>Mikhailo Dalchenko, Texas A&M</i>
XII. Searching for New Physics - continued	
16.30-18:35	
SUSY searches at CMS	<i>Florent Sylvain Lacroix, UC Riverside</i>
Low-energy SUSY facing LHC constraints	<i>Emanuele A. Bagnaschi, DESY</i>
Searches for strongly produced SUSY particles including R-parity violating decays with ATLAS	<i>Takashi Yamanaka, Tokyo</i>
Searches for third generation squarks, and for electroweak production of charginos and neutralinos in ATLAS	<i>Federica Legger, Munich</i>
Perspectives of direct detection of Supersymmetric Dark matter within the MSSM and NMSSM framework	<i>Dmitry Kazakov, JINR</i>
Charmless b-hadron decays at LHCb	<i>Giulio Dujany Manchester</i>
Young Scientists Forum	
18:35-19:35	
Differential cross section of top quark (ATLAS)	<i>Abigail O'Rourke, Hamburg</i>
Search for single production of a vector-like T quark decaying into a top quark and a Higgs boson (CMS)	<i>Heiner Tholen, Hamburg</i>
The Mu2e experiment at Fermilab: design and status	<i>Raffaella Donghia, Roma</i>
Z' bosons in the di-lepton channel	<i>Juri Fiaschi, Southampton</i>
Saturday, March 11	
X. Perspectives	
9:00 - 10:30	
The PADME experiment for dark mediator searches at the Frascati BTF	<i>Venelin Kozhuharov, Sofia</i>
BELLEII Status and Physics Prospects	<i>Pablo Goldenzweig, Karlsruhe</i>
Physics opportunities with an upgraded LHCb detector in the HL-LHC era	<i>Sascha Stahl, CERN</i>
The day after LHC - Plans and prospects for future accelerators	<i>Franco Bedeschi, Pisa</i>