

PRELIMINARY SCIENTIFIC PROGRAMME
(February 22, 2011)

Monday, February 28

8.30-11.50

Session I. Cosmology and Astrophysics

1. 25 years of quarks and the cosmos (and beyond) (Mike Turner, Chicago)
2. Recent Results from ANTARES (Antonio Capone, Roma)
3. Review of CMB (Hogan Nguyen, Fermilab)
4. Indirect searches for Dark Matter (Cristiano Galbiati, Princeton)
5. Scalar dark matter candidate: a revision of the Inert Doublet Model (Lopez Honorez Laura, Brussels)
6. Primordial black holes and contemporary gravitational waves (Alexander Dolgov, Ferrara)

16:00-17:50

Session II. Astroparticle and Neutrino Physics

1. Comments on new bounds on neutrino magnetic moment (Alexander Studenikin, Moscow)
2. The Fermi gamma-ray sky and implications for cosmic-ray acceleration and propagation (Luigi Tibaldo, Padova)
3. Cosmic Rays and Dark Matter searches with Fermi (Luca Baldini, Pisa)
4. Cosmic Rays in the TeV region (Paolo Bernardini, Lecce)
5. Highlights from the Pierre Auger Observatory (Martina Bohacova, Prague)
6. A simple Explanation for Cosmic Rays (Arnon Dar, Haifa)

17.50-19.00

Special Session: Honoring the 70th Birthday of Mario Greco

1. The Early days of QCD (Guido Altarelli, Roma)
2. From vector mesons to quark-hadron duality (Albert Bramon, Barcelona)
3. Mario @ Frascati (Yogi Srivastava, Perugia)
4. Heavy quarks, from discovery to precision (Matteo Cacciari, Paris)

Tuesday, March 1, morning

8:30-11:30

Session III. Astroparticle and Neutrino Physics - Continued

5. Recent Results by Planck (Paolo Natoli, Ferrara)
6. Recent Results from MINOS (Ruth Toner, Cambridge)
7. Results on Neutrino oscillations from the OPERA Experiment (Umut Kose, Padova)
8. T2K (Ahira Minamino, Kyoto)
9. Commissioning the Double CHOOZ Detector (Jaime Dawson, Paris)
10. Neutrino Physics with the Borexino experiment (Barbara Caccianiga, Milano)
11. Recent progress in Neutrino Physics (Carlo Giunti, Torino)

16:30-19:30

Session IV. Physics of Hadronic Interactions

1. Physics Results from CMS (Guido Tonelli, Pisa)
2. Early P-P Physics at ALICE (Enrico Scapparini, Torino)
3. QCD studies at the Tevatron (Gavin Hesketh, London)
4. QCD Physics at ATLAS (Evelin Meoni, Barcelona)
5. Progress and open problems in Parton Distributions (Juan Rojo, Milano)
6. HI at ATLAS (Peter Steinberg, BNL)
7. Heavy Ions at ALICE (Andrea Dainese, Padova)

Wednesday, March 2

8:30-11:30

Session V. Flavour Physics, CP Violation and Rare Decays

1. Recent results from BaBar (Tisserand, Vincent, Annecy)
2. Recent Results from Belle (Ming-Chuan Chang, Taiwan)
3. CP violation and suppressed Bs decays at the Tevatron (Jonathan Lewis, Fermilab)
4. Physics with LHCb (Andrey Golutvyn, ITEP)
5. Charmless B Decays (Chih-hsiang Cheng, Caltech)
6. Flavour Violation in the MSSM (Andreas Crivellin, Bern)
7. Comments on CPT (Victor Novikov, ITEP)

16.30-19.30

Session V-Continue Rare Decays and CPV

1. New Physics Searches in Flavour Physics, a Theoretical Overview (David Straub, Pisa)
2. New Results on K Physics by NA48 (Spasimir Balev, CERN)
3. KLOE-2 project at the DAFNE accelerator upgraded in luminosity (Salvatore Fiore, Roma)
4. Charmonium results with BESIII (Dmitri Dedovich, JINR)
5. Physics at $\Upsilon(5s)$ (Roman Mizuk, ITEP)
6. Bs mixing phase and rare decays at the Tevatron (Marj Corcoran, Fermilab)
7. $Bs \rightarrow J/\Psi \phi$ at LHCb (Oliver Leroy, Marseille)

Thursday, March 3

8:30 – 11:30

Session VI. Electroweak and top Physics

1. Electroweak Physics at the Tevatron (Jadranka Sekaric, Kansas)
2. Top Physics at the Tevatron (Hyun Su Lee, Chicago)
3. Measurement of Forward-Backward Asymmetry in $t\bar{t}$ events at CDF (Dan Amidei, Michigan)
4. Top-quark physics within and beyond the SM (Rikkert Frederix, Zurich)
5. Electroweak and Top physics at ATLAS (Rikard Sandstroem, Nikhef)
6. Measurement of W, Z and Top properties with CMS (Michele De Gruttola, Napoli)

16:30-19:30

VII. Physics and Society

1. The Future of CERN (Rolf Heuer, CERN)
2. Quantitative Biology (Michele Caselle, Torino)
3. The SESAME project, or, how physics can help peace (Khaled Toukan, SESAME)

Friday, March 4

8:30-11:30

VIII. Higgs Searches, Hot Topics

1. Search for Low Mass Higgs at the Tevatron (Weiming Yao, Berkley)
2. Search for High Mass Higgs at the Tevatron (Marc Buehler, Virginia)
3. Higgs (SM and MSSM) and new physics at ATLAS (Eilam Gross, Weizmann Rehovot)
4. Revisiting the constraints on the Higgs sector from the Tevatron (Abdelhak Djouadi, Orsay)
5. Higgs physics and alternative mechanisms for EW symmetry breaking (Michele Redi, CERN)
6. Coulomb law and energy levels in a superstrong magnetic field (Mikhail Vysotsky, ITEP)

16:30-19:30

IX. Searching for New Physics

1. LFV with MEG (Luca Galli, Pisa)
2. $Bs \rightarrow \mu\mu$ with the LHCb (Gaia Lanfranchi, LNF)
3. LFV in charged leptons: a theory overview (Paride Paradisi, Roma)
4. New Physics searches at the Tevatron (Simona Rolli, Tufts)
5. Searches for New Physics in CMS (Henning Flacher, Rochester)
6. Working Technicolor at LHC (Marco Nardecchia, Odense)
7. New Physics in the LHC Era (Riccardo Barbieri, Pisa)

Saturday, March 5

X. Perspectives

1. Icarus and Status of Liquid Argon Technology (Angela Fava, Padova)
2. The Cherenkov Telescope Array (CTA) Project (Christopher Lindsay Naumann, LPNHE)
3. SUPERB (Guy Wormser, Orsay)
4. Status and Physics Prospects of the SuperKEKB Project (Yasuyuki Horii, Tohoku)