

Results and Perspectives in Particle Physics

PRELIMINARY SCIENTIFIC PROGRAMME February 13, 2006

Monday, March 6th

8.30 – 10.00

Session I – Cosmology and Astrophysics

1. Recent Results of Cosmic Gamma Rays Searches (Masahiro Teshima, MPI)
2. Searching for Gravitational Waves (Nelson Christensen, Carleton)
3. Anisotropy of Primary Cosmic Ray Flux in Super-Kamiokande (Yuichi Oyama, KEK)

10-11.30

Special Session – Twenty Years of Les Rencontres

1. Astrophysics in Twenty Years after SN1987A (Rocky Kolb, Fermilab)
2. Searching for Dark Matter (Carlo Rubbia, Pavia)

16.00 – 18.00

Special Session –continued

3. Past and Future of Neutrino Physics (Shelly Glashow, Boston)
4. The APE Project: from Computing for HEP to a Tool for Science (Roberto Petronzio, Roma)
5. Particle Physics from Accelerators to Space (Samuel C. Ting, MIT)
6. Twenty years at la Thuile. A Physicist's amarcord (Alvaro De Rujula, CERN, tbc)

19:00 - WELCOME COCKTAIL

Tuesday, March 7th

8.30-11.30

Session II – Astroparticle and Neutrino Physics

1. Kamland: Present Status and Future Prospects (Kyo Nakajima, Tohoku)
2. Results from SuperKamiokande (Yusuke Koshio, Tokyo)
3. Recent Results from MINOS (Peter Shanahan, Fermilab)
4. Results and Perspectives of Neutrino Astronomy in Ice (Adam Bouchta, Uppsala)
5. Neutrino Physics at Gran Sasso Laboratory (Eugenio Coccia, LNGS)
6. Future Long-Baseline Neutrino Oscillation Program at Fermilab (Scott Menary, York University)

16.30-17.30

Special lecture “High Energy Cosmic Rays” (James Cronin, Chicago)

17.30-19.30

Session II – Astroparticle and Neutrino Physics - Continued

1. Axions: a Theoretical Assessment (Eduard Masso, Barcelona)
2. Showers at Horizon and Array in Space for n Astronomy (Daniele Fargion, Rome)
3. A Unified Theory of HE Astrophysical Phenomena (Arnon Dar, Haifa)

Wednesday, March 8th

8.30-11.30

Session III- QCD Physics/Hadronic Interactions

1. Heavy Flavour Production and Properties at HERA (Jerome Whyte, York)
2. Jet properties from Tevatron (Monica D’Onofrio, Barcelona)
3. Quarks and Gluons Distributions in the Nucleus (Simonetta Liuti, Virginia)
4. Observation of Hadronic States in J/Psi Decays at BES II (Hongo Liao, Beijing)
5. Spectroscopy and New States at B-Factories (Vladislav Balagura, ITEP)
6. Pentaquarks, Do They Exist? (Franco Buccella, Napoli)

16.30 – 19.30

Session IV- Physics and Society

1. Frontiers of Hadrotherapy (Ugo Amaldi, MIB/TERA)
2. Grid: from Hep to Science (Federico Ruggieri, Roma)

GALA DINNER

Thursday, March 9th

8:30 – 11.30

Session V – CP Violation and Results from HF Factories

1. Kaon Physics at KLOE (Erika De Lucia, Frascati)
2. Kaon Physics at KTeV (Speaker TBA)
3. Study of CP Violation in the K Sector at NA48 Evgueni Goudzovsky, JINR)
4. Charm Physics at CLEO (Karl Ecklund, Cornell)
5. Recent Results from Charmonium at BES II (Zheng Wang, Beijing)
6. Alpha, Beta at B Factories (Giuseppe Finocchiaro, Frascati)
7. Gamma/ ϕ 3 Measurement at B-Factories (Anton Poluektov, BINP)

16.30- 19.30

Session VI – CP Violation and Rare Decays

1. Semileptonic B Decays at BaBelle (Mike Kelsey SLAC)
2. Radiative B Decays at BaBelle (Mikihiko Nakao, KEK)
3. Studies of B States at the Tevatron (Brad Abbott, Oklahoma)
4. Bd and Bs Oscillations at the Tevatron (Guillermo Gomez-Ceballos, IFC)
5. Alpha Determination from Charmless Strangless B Decays (Mikhail Vysotsky, ITEP)
6. Vub and Semileptonic Measurement at BaBar (Marcello Rotondo, Padova)

CONCERT

Friday, March 10th

8.30 – 11.30

Session VIII– EW and Top Physics

1. W mass at LEP (Andrea Venturi, Pisa)
2. EW Physics Measurements and Searches for New Physics at HERA (Vincent Boudry, Paris)
3. EWK (including dibosons) at Tevatron (Jonathan Hays, Bristol)
4. Top Properties and Cross Section (Veronique Boisvert, Rochester)
5. top mass and kinematics in ttbar Events (Emanuela Barberis, Boston)
6. Standard Model Higgs Searches and Perspectives at the Tevatron (Stefan Soldner-Rembold, Manchester)

16.30-19.30

Session IX - Looking for Anomalies in SM Physics

1. Tau and charm physics at BaBelle (Pasquale F. Salvatore, London)
2. BSM at BELLE: $B \rightarrow K^* l l$ and Search for Leptonic B Decays (Stefano Villa, Lousanne)
3. Searches for Non SM Higgs and SuperSymmetry at the Tevatron (Catherine Biscarat, Lancaster)
4. Non-SUSY Exotics Searches at the Tevatron (Kevin Burkett, FNAL)
5. BFKL and DGLAP equations in N=4 Supersymmetric Gauge Theory (Lev Lipatov, PNPI/DESY)
6. New Physics and Old Flavor Problem in the LHC Era (Antonio Masiero, Padova)

Saturday, March 11th

8.30-10.30 (2h)

Session X – Perspectives

1. Getting Ready for the LHC. Where Do We Stand? (Speaker TBA)
2. Large-N, QCD, and Supersymmetry (Gabriele Veneziano, CERN)
3. Status and Perspectives of Dark Matter Searches (Jodi Cooley, Stanford)
4. Dark Matter Searches in Space: NASA/DOE/NSF Missions (Rocky Kolb, Fermilab)