



Results and Perspectives in Particle Physics

**SCIENTIFIC PROGRAMME
March 5, 2006**

Monday, March 6th

8.30 – 10.00

Session I – Cosmology and Astrophysics

1. Recent Results and perspective on VHE Gamma Rays Physics (Mosè Mariotti, Padova)
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. The APE Project: from Computing for HEP to a Tool for Science (Roberto Petronzio, Roma)
2. Searching for Dark Matter (Carlo Rubbia, Pavia)

16.30 – 18.00

Special Session – continued

3. Science and Development: a New Paradigm and a Case Study (Nicola Khuri, Rockefeller)
4. Past and Future of Neutrino Physics (Shelly Glashow, Boston)
5. Astrophysics in Twenty Years after SN1987A (Rocky Kolb, Fermilab)

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

7. New Results in Axion Physics (Eduard Massó, Barcelona)
8. Showers at Horizon and Array in Space for n Astronomy (Daniele Fargion, Rome)
9. 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. Results from the 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 (Zheng Wang, Beijing)
5. Spectroscopy and New States at B-Factories (Vladislav Balagura, ITEP)
6. Pentaquarks, Do They Exist? (Franco Buccella, Napoli)

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16.30 – 19.30

Session IV- Physics and Society

1. Frontiers of Hadrotherapy (Saverio Braccini, TERA)
2. Grid: from Hep to Science (Federico Ruggieri, Roma)
3. Status and Perspectives of Dark Matter Searches (Jodi Ann Cooley-Sekula, Stanford)
4. Dark Matter Searches in Space: NASA/DOE/NSF Missions (Rocky Kolb, Fermilab)

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 (presente by Evgueni Goudzovski, JINR)
3. High precision study of charge asymmetry in $K^{+/-} \rightarrow 3\pi^{+/-}$ decays by NA48/2 (Evgueni Goudzovski, 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/phi³ Measurement at B-Factories (Anton Poluektov, BINP)

16.30- 19.30

Session VI – CP Violation and Rare Decays

1. Semileptonic B Decays at B Factories (Mike Kelsey SLAC)
2. Radiative B Decays at B Factories (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 VII – EW and Top Physics

1. W mass at LEP (Andrea Venturi, Pisa)
2. EWK Physics Measurements and Searches for New Physics at HERA (Vincent Boudry, Palaiseau)
3. Electroweak Measurements at the Tevatron (Jonathan Hays, Bristol)
4. Top Properties and Production 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 VIII - Looking for Anomalies in SM Physics

1. Tau and Charm Physics at B Factories (Pasquale F. Salvatore, London)
2. $B \rightarrow K^* \ell \ell$ and Search for Leptonic B Decays at Belle (Stefano Villa, Lausanne)
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. New Physics and Old Flavor Problem in the LHC Era (Antonio Masiero, Padova)

Saturday, March 11th

8.30-10.30

Session IX – Perspectives

1. Getting Ready for the LHC. Where Do We Stand? (Albert De Roeck, CERN)
2. Large-N, QCD, and Supersymmetry (Gabriele Veneziano, CERN)
3. Particle Physics from Accelerators to Space (Samuel C. Ting, MIT)