

# BEACH2010 CONFERENCE PROGRAM

## Monday, June 21

**8:30-10:00 Coffee Start and Registration (Palazzo Murena Cloister, University of Perugia Rectorate)**

### **Morning Session 9:00-12:30 (Aula Magna, University of Perugia)**

(Scientific Secretariat: Mauro Piccini)

#### **Opening Session 10:00-12:30 (Chair: M. Bozzo)**

- 10:00-10:20 Opening Remarks and Welcome to Beach2010 participants – Prof. Antonio Pieretti (Deputy Rector of the University of Perugia), Prof. Fausto Elisei (Dean of the Faculty of Sciences), Dr. Pasquale Lubrano ( Director INFN Perugia Department)
- 10:20-11:00 Perugia and Umbria (title to be announced) – F. I. Nucciarelli (Faculty of Humanities, Uni Perugia)
- 11:00-11:45 Heavy Flavors as a Gate to New Physics c A. Masiero (Uni Padova and INFN)
- 11:45-12:30 Status of LHC – S. Bertolucci (CERN and INFN, LNF)

**13:00-14:00 Lunch (Palazzo Murena Cloister, University of Perugia Rectorate)**

### **Afternoon Sessions 14:00-18:30 (Aula Magna, University of Perugia)**

(Scientific Secretariat: Mauro Piccini)

#### **Flavor Physics at LHC – I 14:00-16:00 (Chair: A. Masiero)**

- 14:00-14:30 Status of ATLAS and first results – D. Tovay (Uni Sheffield)
- 14:30-15:00 Status of CMS and first results – C. Biino (INFN Torino)
- 15:00-15:30 LHCb status and minimum bias physics – S. Bachmann (Uni Heidelberg)
- 15:30-16:00 Status of the ALICE experiment at LHC and first observation for heavy flavour production – R. Romita (GSI, Darmstadt)

**16:00-16:30 Coffee Break (Palazzo Murena Cloister, University of Perugia Rectorate)**

#### **Flavor Physics at LHC – II 16:30-17:30 (Chair: D. Tovay)**

- 16:30-16:50 Muon commissioning and Exclusive B production at CMS with the first LHC data – S. Taroni (INFN Milano-Bicocca)
- 16:50-17:10 Studies of open charm and charmonium production at LHCb – M. Charles (Uni Oxford)
- 17:10-17:30 Charmonium and beauty ATLAS physics programme – M. Smizanska (Uni Lancaster)

#### **Flavor Physics at LHC – III 17:30-18:30 (Chair: S. Bachmann)**

- 17:30-17:50 Study of D-mesons in the hadronic channel with the ALICE detector – R. Bala (INFN Torino)
- 17:50-18:10 First ATLAS results on charm production – E. Mountricha (NTU Athens)
- 18:10-18:30 Low-mass di-muons at CMS – T. N. Kypreos (Uni Florida)

**19:00-22:00 Welcome Cocktail (Palazzo Murena Cloister, University of Perugia Rectorate)**

## **Tuesday, June 22**

### **Morning Sessions 9:00-13:00 (Aula Magna, University of Perugia)**

(Scientific Secretariat: Benedetta Caponeri)

#### **Flavor Physics at LHC – IV 9:00-10:30 (Chair: R. Romita)**

- 9:00- 9:20 Expectations for first measurements of t-tbar pair production using early CMS data – A-C. Le Bihan (IPHC, IN2P3-CNRS - ULP, UHA Mulhouse)
- 9:20- 9:40 ATLAS top physics – K. Suruliz (ICTP Trieste)
- 9:40-10:00 Quarkonium and Heavy Flavour Physics with the ALICE Muon Spectrometer at the LHC – N. Bastid (LPC, Clermont-Ferrand)
- 10:00-10:20 Open Charm production in the  $D^* \rightarrow D0 \pi^+$  decay channel with ALICE – Y. Wang (Uni Heidelberg)

#### **10:20-10:50 Coffee Break (Palazzo Murena Cloister, University of Perugia Rectorate)**

#### **Flavor Physics at LHC – IV 10:50-11:50 (Chair: F. Bedeschi)**

- 10:50-11:10 Search for New Physics in Heavy Quark Decays at LHCb – J. van Tilburg (Uni Zürich)
- 11:10-11:30 First measurements of strange baryons and anti-baryons with the ALICE experiment in pp collisions at LHC – R. Vernet (CC-IN2P3)
- 11:30-11:50  $R_{AA}$  of charm quarks at RHIC and LHC – Begum Umme Jamil (VECC, Kolkata)

#### **CKM and CP violation – I 11:50-12:30 (Chair: S. Stracka)**

- 11:50-12:10 Recent CKM Element Results from BaBar and Belle – N. Gagliardi (INFN Padova)
- 12:10-12:30 Recent results on CP violation and CKM UT angles from Belle and BaBar – K-F Chen (National Taiwan Uni) for G. Mohanty (TIFR, Mumbai)

#### **13:00-14:00 Lunch (Palazzo Murena Cloister, University of Perugia Rectorate)**

### **Afternoon Sessions 14:00-18:00 (Aula Magna, University of Perugia)**

(Scientific Secretariat: Benedetta Caponeri)

#### **CKM and CP violation – II 14:00-15:00 (Chair: M. Williams)**

- 14:00-14:30 Unitarity Triangle and New Physics – P. Paradisi (T.U. Munich)
- 14:30-15:00 New measurement of the  $B_s$  mixing phase at the Tevatron – F. Bedeschi (INFN Pisa)

#### **Hadron Production in Lepton Interaction – I 15:00-16:00 (Chair: G. Nowak)**

- 15:00-15:30 Production of Heavy Flavors in ep Collisions at HERA – W. Perlanski (Uni Lodz)
- 15:30-16:00 The physics program of CLAS12- Silvia Niccolai (IPN Orsay)

#### **16:00-16:30 Coffee Break (Palazzo Murena Cloister, University of Perugia Rectorate)**

#### **Hadron Production in Lepton Interaction – II 16:30-18:00 (Chair: S. Niccolai)**

- 16:30-17:00 Particle Production and Fragmentation at HERA – G. Nowak (INP, Krakow)
- 17:00-17:20 Production and Polarization of Lambda and Lambda-bar Hyperons in Deep Inelastic Scattering at COMPASS – V. Alexakhin (JINR Dubna)
- 17:20-17:40 Lambda Polarization at HERMES – Y. Naryshkin (PNPI)
- 17:40-18:00 Hyperon Resonance Photoproduction at CLAS – K. Hicks (Uni Ohio)

**21:00 Aula Magna of the University for Foreigners, Perugia**  
**Concert by the Duo Physarmonia of the Perugia Physics Department**  
**Dr. C.B. Mezzetti, violin – Prof. G.C. Mantovani, piano**  
**Composers: J.S.Bach, A. Dvorak, F. Schubert, M. Tournier, A. Vivaldi**

## **Wednesday, June 23**

### **Morning Session 9:00-12:30 (Aula Magna, University of Perugia)**

(Scientific Secretariat: Stefano Germani)

#### **Heavy Flavor Decays and Properties – I 9:00-10:30 (Chair: R. Gonzalez Suarez)**

- 9:00- 9:30 Search for Non-Standard Model Physics in Rare Decays at the Tevatron – G. Volpi (INFN Pisa)
- 9:30- 9:50 Recent results on quarkonia at Belle – J. Brodzicka (INP PAS)
- 9:50-10:10 Searches for New Physics at BaBar – C. Cartaro (SLAC)
- 10:10-10:30 Advances in Open Charm Physics at CLEO-c – P. Naik (Uni Bristol)

#### **10:30-11:00 Coffee Break (Palazzo Murena Cloister, University of Perugia Rectorate)**

#### **Heavy Flavor Decays and Properties – II 11:00-12:25 (Chair: J. Brodzicka)**

- 11:00-11:25 New results from D0 – M. Williams (Uni Lancaster)
- 11:25-11:45 Heavy Flavor Properties at CDF – S. de Cecco (LPNHE, Uni Paris VI, CNRS-IN2P3)
- 11:45-12:05 Hadronic B Decays at Belle – Kai-Feng Chen (National Taiwan Uni)
- 12:05-12:25 Lepton Energy Moments in Semileptonic Charm Decays – J. Kamenik (Jozef Stefan Inst.)

#### **12:30-13:30 Lunch (Palazzo Murena Cloister, University of Perugia Rectorate)**

#### **13:30-21:00 Conference Excursion: the medieval town of Bevagna and “Il mercato delle Gaitè”**

## **Thursday, June 24**

### **Morning Session 9:00-12:30 (Aula Magna, University of Perugia)**

(Scientific Secretariat: Elisa Manoni)

#### **Kaon Physics: theory and experiments - I 9:00-10:40 (Chair: N. Solomey)**

- 9:00- 9:30 Rare K decays and  $\epsilon_K$ : Theory Prediction – J. Brod (T.U. Munich)
- 9:30-10:00 Lepton universality tests with leptonic kaon decays – E. Goudzovski (JINR)
- 10:00-10:20 Results from the E391a experiment at KEK – G. Y. Lim (KEK)
- 10:20-10:40 CP violation tests with rare kaon decays in NA48 – E. Marinova (INFN, Perugia)

#### **10:40-11:10 Coffee Break (Palazzo Murena Cloister, University of Perugia Rectorate)**

#### **Kaon Physics: theory and experiments - II 11:10-12:20 (Chair: R. Tschirhart)**

- 11:10-11:40 Results on radiative kaon decays and  $K_S$  and  $K_L$  lifetimes at KLOE – M. Antonelli (INFN, LNF)
- 11:40-12:00 Tests of Chiral Perturbation Theory in NA48 – C. Biino (INFN, Torino)
- 12:00-12:20 A new measurement of charged kaons mass – N. Solomey (Wichita State Uni)

#### **13:00-14:00 Lunch (Palazzo Murena Cloister, University of Perugia Rectorate)**

### **Afternoon Sessions 14:00-18:30 (Aula Magna, University of Perugia)**

(Scientific Secretariat: Elisa Manoni)

#### **Kaon Physics: theory and experiments – III 14:00-14:40 (Chair: G. Y. Lim)**

- 14:00-14:20 Kaon-nucleon/nuclei interaction studies by kaonic atoms measurements: the SIDDHARTA Experiment at DAFNE – D. Sirghi (INFN, LNF)
- 14:20-14:40 Precision Measurements of  $\pi\pi$  Scattering Length in  $K_{e4}$  Decays at NA48 – R. Wanke (Uni Mainz)

#### **New Projects – I 14:40-16:00 (Chair: M. Antonelli)**

- 14:40-15:00 Status and Prospects of SuperKEKB and Belle II – J. Brodzicka (INP PAS)
- 15:00-15:20 Status and Prospects of the SuperB Factory – M. Rama (INFN, LNF)
- 15:20-15:40 The Fermilab Project-X Research Program – R. Tschirhart (FNAL)
- 15:40-16:00 The KLOE2 Experiment at DAFNE upgraded in luminosity – F. Gonnella (Uni Roma Tor Vergata and INFN)

#### **16:00-16:30 Coffee Break (Palazzo Murena Cloister, University of Perugia Rectorate)**

#### **New Projects – II 16:30-18:20 (Chair: R. Wanke)**

- 16:30-17:00 Kaon Experiments at J-Parc – G. Y. Lim (KEK)
- 17:00-17:20 The NA62 Experiment at CERN – G. Ruggiero (SNS and INFN, Pisa)
- 17:20-17:40 Precision Measurement of  $K^+ \rightarrow \pi^+ \nu \bar{\nu}$  at Fermilab – R. Tschirhart (FNAL)
- 17:40-18:00 Kaon-nuclei interaction studies at low energies: the AMADEUS experiment – K. Piscicchia (INFN, LNF)
- 18:00-18:20 Heavy quark measurements and the new Silicon Tracker (HFT) in STAR experiment at RHIC – S. Margetis (Kent State Uni)

## **Friday, June 25**

### **Morning Session 9:00-13:00 (Aula Magna, University of Perugia)**

(Scientific Secretariat: Evelina Marinova)

#### **Lepton Flavor - I 9:00-10:50 (Chair: M. Mezzetto)**

- 9:00- 9:40 Lepton Flavor for Hadron Flavor Physicists – S. King (Uni Southampton)
- 9:40-10:00 Lepton Flavor Violation search with  $\mu \rightarrow e \gamma$  decay: the MEG experiment – H. Natori (Uni Tokyo)
- 10:00-10:20 A new high sensitivity muon-electron conversion search at Fermilab – R. Tschirhart (FNAL)
- 10:20-10:50 Precision Measurements with Pions: a review – T. Numao (TRIUMF)

#### **10:50-11:20 Coffee Break (Palazzo Murena Cloister, University of Perugia Rectorate)**

#### **Lepton Flavor – II 11:20-12:50 (Chair: T. Numao)**

- 11:20-12:00 Review on Neutrino Oscillations – T. Maruyama (KEK)
- 12:00-12:30 Neutrinoless Double Beta Decay – C. Bucci (LNGS, INFN)
- 12:30-12:50 Pion production in the HARP-PS214 Experiment at CERN-PS – M. Mezzetto (INFN, Padova)

#### **13:00-14:00 Lunch (Palazzo Murena Cloister, University of Perugia Rectorate)**

### **Afternoon Sessions 14:00-18:30 (Aula Magna, University of Perugia)**

(Scientific Secretariat: Evelina Marinova)

#### **Quark Flavor Spectroscopy - I 14:00-15:30 (Chair: J. Mc Kenna)**

- 14:00-14:30 Charmonium and Bottomonium Spectroscopy and Exotics – A. Polosa (INFN Roma)
- 14:30-14:50 Charmonium Results from BESIII – J. Zhang (IHEP, Beijing)
- 14:50-15:10 Quarkonium Studies at BaBar – S. Stracka (Uni Milano and INFN)
- 15:10-15:30 Recent Results on Light Hadron Spectroscopy at BES – X. Ji (IHEP, Beijing)

#### **Quark Flavor Spectroscopy - I 15:30-16:40 (Chair: A. Polosa)**

- 15:30-15:50 Contribution of the MVD to the Charm Spectroscopy at PANDA – T. Wuerschig (Uni Bonn)
- 15:50-16:20 Charm and Beauty production at RHIC – S. Kabana (SUBATECH)
- 16:20-16:40 The perfect opaque fluid at RHIC – G. Torrieri (Uni Columbia and Uni Goethe, Frankfurt)

#### **16:40-17:20 Coffee Break (Palazzo Murena Cloister, University of Perugia Rectorate)**

- 17:30-18:30 **General Public Seminar, Aula Magna University of Perugia**  
**Prof F. Ferroni (Uni La Sapienza and INFN, Roma) – Il Large Hadron Collider del CERN: la più grande macchina del mondo alle frontiere dell'ignoto**

#### **20:00 Conference Dinner (Castello di Monterone)**

## **Saturday, June 26**

### **Morning Session 9:00-12:30 (Sala dei Notari - City Hall, Palazzo dei Priori)**

(Scientific Secretariat: Stefano Ciprini)

#### **Concluding Session – I 9:00-10:45 (Chair: F. Ferroni)**

- 9:00- 9:15 Concluding Remarks
- 9:15- 9:45 Higgs Search Prospects at LHC – R. Gonzalez Suarez (IFCA, Santander)
- 9:45-10:15 Search for Susy and New Physics at LHC – D. A. Milstead (Uni Stockholm)
- 10:15-10:45 Beauty and Charm to study New Physics at Future Linear Colliders – M. Battaglia (UCSC and CERN)

#### **10:45-11:15 Coffee Break**

#### **Concluding Session – II 11:15-12:30 (Chair: M. Bozzo)**

- 11:15-12:15 BEACH2010 Summary Talk – T. Nakada (Ecole Polytechnique, Lausanne)
- 12:15-12:30 Conference Closing

#### **12:30 End of BEACH2010**