

Plenary Program

Plenary Program (Chan Centre)

Monday July 5 2010

Chairs: N. Lockyer (Canada) M. Oka (Japan)
--

Opening Remarks

08:30-08:45 Opening talk

08:45-09:30 P. Braun-Munzinger (ExtreMe Matter Institute EMMI, GSI)
Nuclear Physics: Present & Future

Session 1: Hot and Dense QCD

09:30-10:00 J. Nagle (University of Colorado)
Hot QCD Matter: Lessons Learned Over the Past Decade, and New Questions for the Next Decade

10:00-10:30 K. Fukushima (Yukawa Institute for Theoretical Physics)
Phases of QCD - Baryon Rich State of Matter

10:30-11:00 Coffee

11:00-11:30 J. Y. Ollitrault (Institute of Theoretical Physics (IPhT))
Phenomenology of the Little Bang

Session 2: Hadrons in Nuclei
Chairs: J.P. Blaizot (France) M. Dong-Pil (Korea)

11:30-12:00 T. Nagae (Kyoto University)
Strangeness in Nuclear Physics

12:00-12:30 E. Piasezky (Tel Aviv University)
Nuclear Studies with Hard Knockout Reactions

Tuesday July 6 2010

Session 3: Nuclear Astrophysics
Chairs: A. Richter (Italy) R. Kanungo (Canada)

08:00-08:30 J. Blackmon (Louisiana State University)
What Do (and don't) We Understand About Explosive Nucleosynthesis?

08:30-09:00 G. Imbriani (University of Naples "Federico II" and INFN section of Naples)
Direct Measurements of Cross Section of Astrophysical Interest

09:00-09:30 C. Horowitz (Indiana University)
Neutron Rich Matter and Neutron Stars and Their Crusts

09:30-10:00 T. Janka (Max Planck Institute for Astrophysics)
Core-collapse Supernovae as Testbed of Nuclear and Neutrino Physics

10:00-10:30 Coffee

Plenary Program

Session 4: Nuclear Reactions

Chairs: J. Stachel (Germany)
S. Gales (France)

- 10:30-11:00 P. Roussel-Chomaz (GANIL)
Reactions with Exotic Nuclei: Recent Results and Challenges
- 11:00-11:30 P. Navratil (Lawrence Livermore National Laboratory)
Ab Initio Theory of Light-ion Reactions
- 11:30-12:00 Y. Oganessian (Joint Institute for Nuclear Research (JINR))
Superheavy Nuclei From 48Ca-induced Reactions
- 12:00-12:30 J. Benlliure (University of Santiago de Compostela)
Recent Highlights on Fragmentation Reactions

Wednesday July 7 2010

Session 5: New Facilities and Instrumentation

Chairs: M. Borge (Spain)
R. Tribble (USA)

- 08:00-08:30 S. Nagamiya (J-PARC)
Overview Hadron Facilities
- 08:30-09:00 B. Fulton (University of York)
Present and Future RIB Facilities
- 09:00-9:30 J. Jowett (CERN)
Facilities for the Energy Frontier of Nuclear Physics
- 9:30-10:00 N. Smith (SNOLAB)
Developments in Underground Facilities

Session 6: Applications and Interdisciplinary Research

Chairs: B. Jonson (Sweden)
M. Pfitzner (Poland)

- 10:00-10:30 D. Dean (DOE)
Energy Future and Nuclear Physics
- 10:30-11:00 Coffee**
- 11:00-11:30 S. Kailas (Bhabha Atomic Research Centre)
Sub-critical Thorium Reactors Developments
- 11:30-12:00 A. MacFarlane (UBC)
New Applications of Beta Detected NMR in the Study of Condensed Matter at the Nanoscale

Award Session

Chairs: D. Riska (Finland, IUPAP C-12)
J.-M. Poutissou (Canada, IUPAP C-12)

- 12:00-12:20 Introduction & best poster and presentation award
- 12:20-12:40 1st IUPAP young scientist award
- 12:40-13:00 2nd IUPAP young scientist award
- 13:00-13:20 3rd IUPAP young scientist award

Plenary Program

Thursday July 8 2010

Session 7: Hadron Structure
Chairs: D. Geesaman (USA)
G. Rosner (UK)

- 08:00-08:30 Z. Fodor (University of Wuppertal)
Hadrons in Lattice QCD
- 08:30-09:00 P. Gianotti (INFN Frascati)
Hadron Spectroscopy: An Experimental Overview
- 09:00-09:30 D. Kaplan (INT Seattle)
Nuclear Forces from QCD, and Effective Field Theory
- 09:30-10:00 N. Makins (Urbana)
Quarks in Orbit: The Puzzling Quest for L

10:00-10:30 Coffee

Session 8: Nuclear Structure
Chairs: M. Huyse (Belgium)
A. Lepine-Sailly (Brazil)

- 10:30-11:00 A. Gade (NSCL/MSU)
In-beam Gamma-ray Spectroscopy Towards the Drip Lines
- 11:00-11:30 A. Schwenk (TRIUMF and EMMI/TU Darmstadt)
Advances in Nuclear Structure Theory
- 11:30-12:00 J. Dobaczewski (University of Warsaw / University of Jyväskylä)
Current Developments in Nuclear Density Functional Methods
- 12:00-12:30 K. Blaum (Max Planck Institute für Nuclear Research)
Precision Measurement of Ground-state Properties for Nuclear Structure Studies

Friday July 9 2010

Session 9: Standard Model Tests & Fundamental Symmetries
Chairs: G. Gwinner (Canada)
N. Auerbach (Israel)

- 08:30-09:00 W. Marciano (BNL)
Precision Electroweak Tests of the Standard Model
- 09:00-09:30 P. Fierlinger (Technische Universität München)
Particle Electric Dipole Moments
- 09:30-10:00 K. Jungmann (University of Groningen, KVI)
Precision Tests of Discrete Symmetries with Radioactive Isotopes
- 10:00-10:30 K. Kumar (University of Massachusetts)
Indirect Searches for Physics Beyond the Standard Model with Electron Muon Beams

10:30-11:00 Coffee

Plenary Program

Session 10: Neutrinos and Nuclei

Chairs: C. Signorini (Italy)
H. Sakurai (Japan)

- 11:00-11:30 M. Chen (Queen's University)
Solar Neutrino Experiments: Recent Results and Future Prospects
- 11:30-12:00 Y. Suzuki (Kamioka Observatory, Institute for Cosmic Ray Research,
University of Tokyo)
Status of Double Beta Decay Experiments
- 12:00-12:30 T. Sumner (Imperial College London)
Dark Matter Searches and Highlights
- 12:30-13:00 K. Scholberg (Duke University)
Neutrino Mass and Oscillations
- 13:00-13:15 Student & Young Scholar Awards

Closing