

Sixth International Conference
on
PERSPECTIVES IN HADRONIC PHYSICS

Cosponsors:

The Italian National Institute for Nuclear Physics (Istituto Nazionale di Fisica Nucleare - INFN)
Consorzio per l'incremento degli Studi e delle Ricerche dei Dipartimenti di Fisica dell'Università di Trieste
University of Perugia

Directors:

S. Boffi, C. Ciofi degli Atti, M. Giannini, D. Treleani

Trieste – Italy, 12 - 16 May 2008

AGH (Kastler Lecture Hall)

PRELIMINARY PROGRAMME

MONDAY, 12 MAY 2008 (AGH Kastler Lecture Hall)

- 08:30 - 09:30** (Room: AGH Lobby) **REGISTRATION / ADMINISTRATIVE FORMALITIES**
- 09:30 - 09:45** **OPENING SESSION**
- 09:45 - 10:15** **S. Brodsky (SLAC, USA)** – Hadronic light-front wavefunctions from AdS/QCD
- 10:15 - 10:45** **R. Miskimen (UMass Amherst, USA)** – A precision measurement of the neutral pion lifetime: the PRIMEX experiments
- 10:45 - 11:00** **--- COFFEE BREAK ---**
- 11:00 - 11:30** **V. Burkert (JLAB, USA)**- Transition form factors and 2 pion production
- 11:30 - 12:00** **I. Cloet (Jlab, USA)** -The nucleon transversity and helicity distribution functions
- 12:00 - 14:00** **--- LUNCH BREAK ---**
- 14:00 - 14:30** **L. Pentchev (JLab)**, - Proton Form Factor Ratio Measurements Using Polarization Method: Beyond Born Approximation
- 14:30 - 15:00** **W. Plessas (Graz)** - Baryon Resonances and Strong Decays

15:00 - 15:30 **C. Dominguez (Cape Town, South Africa)** – Electromagnetic Form Factors of Hadrons in Quantum Field Theories

15:30 - 16:00 **T. Mart (Depok, Indonesia)**- Electromagnetic Productions of $K\Sigma$ on the Nucleons

16:00 - 16:15

--- COFFEE BREAK ---

16:15 – 16:45 **S. Strauch (Jlab, USA)**- Medium modifications from $4\text{He}(e,e'p)3\text{H}$

16:45 – 17:15 **A. Thomas (JLab, USA)**- Distribution of Spin and Orbital Angular Momentum in the Proton: the Spin Crisis and the Interpretation of GPDs

17:15 – 17:45 **B. Wojtsekhowski (Jlab)** -Nucleon form factors experiments with 12 GeV CEBAF

17:45 - 18:15 **A. Valcarce (Salamanca)** – Hadron Physics, a quark-model analysis

18:15 - 18:45 **M. Barabanov (Dubna)** - Search for radial excited states of charmonium

19:30 - 22:00

--- GET TOGETHER DRINK ---

TUESDAY, 13 MAY 2008 (AGH Kastler Lecture Hall)

09:00 - 09:30 **L. Schoeffel (LCP-Clermont CNRS/IN2P3, France)**- Deeply virtual Compton scattering at HERA and perspectives at CERN

09:30 - 10:00 **M.B. Gay Ducati (Porto Alegre, Brazil)** -Diffractive Hadroproduction of W^+ , W^- and Z^0 bosons at High Energies

10:00 - 10:30 **M. Garçon (CEA-Saclay, France)**- Nucleon structure studies via deeply virtual exclusive reactions at JLab

10:30 - 10:45

--- COFFEE BREAK ---

10:45 - 11:15 **C. Munoz Camacho (LPC Clermont, CNRS/IN2P3, France)**- Deeply virtual Compton scattering at Jlab

11:15 – 11:45 **S. Fantoni (SISSA)** – Montecarlo approach to nuclear matter

11:45 – 12:15 **M. Alvioli (Perugia, Italy)** – n-p and p-p correlations in light and medium-weight

nuclei

12:15 - 14:00

--- LUNCH BREAK ---

14:00 - 14:30

S. Gilad (MIT, USA)- (e,e'p) and (e,e'pp) on ^{12}C and Nucleon-Nucleon Correlations

14:30 - 15:00

J. Watson (Kent State, USA)- Short-Range Correlations from Hadronic-Induced Reactions

15:00 - 15:30

D. Higinbotham (JLab, USA)- Short-Range Structure of Nuclei

15:30 - 16:00

M. Sargsian (FIU, USA)- Hard Break-Up of Two Nucleons and QCD Dynamics of NN Interaction

16:00 - 16:15

--- COFFEE BREAK ---

16:15 - 16:45

E. Piasezky (Tel Aviv, Israel)- Hard photo disintegration of a proton pair in ^3He

16:45 - 17:15

D. Day (UVA, USA)- Scaling and Short Range Correlations in Inclusive Electron-Nucleus Scattering at High Momentum Transfers

17:15 - 17:45

M. Strikman (Penn State, USA)- Future directions for probing two and three nucleon short-range correlations at high energies

17:45 - 18:15

D. Gaskell (Jlab, USA)- New Measurements of the EMC Effect in Light Nuclei and at Large x

18:15 - 18:45

A. Rezaeian (Valparaiso, Chile)- Perturbative origin of azimuthal anisotropy in nuclear collisions

CONTRIBUTED PAPERS

20:00 - 20:25

V. V. Sumachev (St. Petersburg, Russia)- Spin rotation parameters A and R measurements in the resonance region of the pion-nucleon elastic scattering: recent results and subsequent investigations

20:25 - 20:50

S. Rana (Garwhal, India)- Proton spin problem and chiral quark model

20:50 - 21:15

V.V. Lyuboshitz (JINR, Russia)- The coherent inelastic processes in collisions of particles and nuclei at ultrarelativistic energies

WEDNESDAY, 14 MAY 2008 (AGH Kastler Lecture Hall)

- 09:00 - 09:30** **C. Schaerf (Roma, Italy)**- Recent results from the Graal beam
- 09:30 - 10:00** **G. Salmè (Roma, Italy)**- Trinucleon Electromagnetic Form Factors within Light-Front Hamiltonian Dynamics
- 10:00 - 10:30** **W. Haider (Aligarh, India)** - Three nucleon effects in the microscopic optical potential
- 10:30 - 10:45** --- *COFFEE BREAK* ---
- 10:45 - 11:15** **R. Venugopalan (BNL, USA)**- High energy Factorization, the Glasma, and the Ridge in A+A collisions
- 11:15 - 11:45** **D. Kharzeev (BNL, USA)**- P and CP violation in heavy ion collisions
- 11:45 - 12:15** **D. Triantafyllopoulos (ECT*, Italy)** - Geometric scaling in Mueller-Navelet jets
- 12:15 - 14:00** --- *LUNCH BREAK* ---
- 14:00 - 14:30** **J-W. Qiu (Iowa State University, USA)**-QCD resummation for heavy quarkonium production in high energy collisions
- 14:30 - 15:00** **A. Mocsy (BNL,USA)**- J/Psi production in nuclear collisions
- 15:00 - 15:30** **M. P. Lombardo (INFN Frascati)**- Lattice and phase diagram in QCD
- 15:30 - 16:00** **F. Hautmann (CERN)** -Jet correlations from unintegrated parton distributions
- 16:00 - 16:15** --- *COFFEE BREAK* ---
- 16:15 - 16:45** **U. Maor (Tel Aviv)**- Diffraction in high energy hadronic collisions
- 16:45 - 17:15** **L. Frankfurt (Tel Aviv, Israel)**- On the fate of neutron stars
- 17:15 - 17:45** **O. Benhar (Roma, Italy)** - Unified description of equation of state and transport properties of neutron star matter
- 17:45 - 18:15** **A. Drago (Ferrara, Italy)**- Formation of Quark Phases in compact stars

THURSDAY, 15 MAY 2008 (AGH Kastler Lecture Hall)

- 09:00 - 09:30** **B. Povh (Heidelberg, Germany)** – Deep inelastic scattering off pions

- 09:30 – 10:00** **B. Kopeliovich (Valparaiso, Chile)**- Odd features of hard diffraction
- 10:00 - 10:30** **J. Nemchik (Bratislava, Slovak Republic)**- Forward Physics in Proton-Nucleus and Nucleus-Nucleus Collisions
- 10:30 - 10:45**
--- COFFEE BREAK ---
- 10:45 - 11:15** **W. Brooks (JLab-Valparaiso)**- Studies of parton propagation and hadron formation in the space-time domain
- 11:15 - 11:45** **W.-D. Nowak (DESY, Germany)**- The angular momentum structure of the nucleon
- 11:45 – 12:15** **E. Santopinto (Genova, Italy)**- Unquenching CQM
- 12:15 - 14:00**
--- LUNCH BREAK ---
- 14:00 - 14:30** **F. Maas (Mainz, Germany)**- Parity violation and strangeness content of the nucleon
- 14:30 - 15:00** **K. De Jager (JLab, USA)**- Neutron spin-structure studies and the parity-violation program at JLab
- 15:00 - 15:30** **U. D'Alesio (Cagliari, Italy)**- Exploring the transverse spin structure of nucleon
- 15:30 – 16:00** **C. Djalali (Univ. Of South Carolina, USA)**- Medium Modification of light vector mesons in Nuclei
- 16:00 - 16:15**
--- COFFEE BREAK ---
- 16:15 – 16:45** **M. Vanderhaeghen (Mainz, Germany)**- Elastic and transition form factors
- 16:45 – 17:15** **S. Scopetta (Perugia, Italy)**- Sivers asymmetry for the proton and the neutron
- 17:15 – 17:45** **B. Pasquini (Pavia, Italy)**- Structure and dynamics of the nucleon spin on the light cone
- 17:45- 18:15** **O. Teryaev (Dubna, Russia)**- Generalized parton distributions, analyticity and

form factors

20:30 – 22:30 --- CONFERENCE DINNER ---

FRIDAY, 16 MAY 2006 (AGH Kastler Lecture Hall)

- 09:00 - 09:30 **H-J. Arends (Mainz, Germany)**- Recent activities and perspectives at MAMI
- 09:30 – 10:00 **F. Bradamante (Trieste, Italy)**- Highlights from the COMPASS experiment at CERN
- 10:00 - 10:30 **R. Kaiser (Glasgow, UK)**- Experimental prospects at GSI (Panda and PAX)
10:30 - 10:45
--- *COFFEE BREAK* ---
- 10:45 - 11:15 **S. Kumano (KEK, Japan)** – High-energy hadron physics at J-PARC
- 11:15 - 11:45 **V. P. Ladygin (Dubna)** - Recent results from polarization experiments at the LHE-JINR Accelerator
- 11:45 - 12:15 **J-C. Peng (Univ. of Illinois, USA)**- Hadron structure with dimuon production
- 12:15 - 12:45 **K. Peters (GSI mbH, Germany)**- The FAIR project

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