

Final Programme EINN2003

Tuesday 7 October

Late afternoon / early evening	Registration at the hotel reception and ESF desk
19.30	Supper
21.00	Get-together-drinks

Wednesday 8 October

Session I: OVERVIEW

Chair: Enzo De Sanctis (I, INFN Frascati, I)

09.00	Conference Opening
09:05	Gerard van der Steenhoven (NL, NIKHEF, NL) <i>The quark-gluon structure of hadrons (Experimental)</i>
09:45	Discussion
09.55	Anthony Thomas (AU, University of Adelaide, AU) <i>The quark-gluon structure of hadrons (Theory)</i>
10:35	Discussion
10.45	Coffee break

Session II: QCD STRUCTURE OF HADRONS: Parton Distributions (I)

Chair: Enzo De Sanctis (I, INFN Frascati, I)

11.15	Andreas Metz (D, Ruhr Universität Bochum, D) <i>The nucleon transversity distribution – Theory: Workshop Summary</i>
11:45	Discussion
11:50	Nicola Bianchi (I, INFN Frascati, I) <i>The nucleon transversity distribution – Experimental: Workshop Summary</i>
12:20	Discussion
12:25	Fabienne Kunne (F, CEA Saclay, F) <i>Measuring the gluon polarization</i>
12:55	Discussion
13.00	Lunch

Session III:

QCD STRUCTURE OF HADRONS: Parton Distributions (II)

Chair: Paul Hoyer (FIN, Helsinki, FIN)

- 16.30 **Klaus Goëke** (D, Ruhr Universität Bochum, D)
Modelling Generalized Parton Distributions
- 17:05 Discussion
- 17:10 **Michel Garçon** (F, CEA Saclay, F)
Measuring Generalized Parton Distributions
- 17:45 Discussion
- 17:50 **Constantia Alexandrou** (CY, University of Cyprus, CY)
Hadron wave functions from lattice calculations
- 18:10 Discussion
- 18.15 Coffee break

Session III (continued):

QCD STRUCTURE OF HADRONS: Parton Distributions (II): Contributed papers

Chair: Paul Hoyer (FIN, Helsinki, FIN)

- 18.45 **Caroline Riedl** (D, Universität Erlangen-Nürnberg, D)
The measurement of the tensor structure function b_1 of the deuteron with the HERMES experiment
- 18:57 Discussion
- 19:00 **Bino Jules M.Maiheu** (B, University of Gent, B)
The fragmentation process in the extraction of flavour separated quark elicity distributions at HERMES
- 19:12 Discussion
- 19:15 **Ludvine Morand** (F, CEA Saclay, F)
Deep Virtual Vector Meson production at Jlab measured with CLAS
- 19:27 Discussion
- 19:30 **Steven Morrow** (UK, CEA Saclay, F)
Double Deep Virtual Compton Scattering events studied with the CLAS detector
- 19:42 Discussion
- 19:45 **Jens Ossmann** (D, Ruhr Universität Bochum, D)
The isoscalar GPD $E(x, \xi, t)$ and the J_i sum rule in the chiral quark soliton model
- 19:57 Discussion
- 20:00 **Jean Philippe Landsberg** (B, University of Liege, B)
Generalised Parton Distributions of the pion
- 20:12 Discussion
- 20.30 **Dinner**
- 21:00 **Special discussion about the future of this conference series**

Session IV:

QUARK & HADRON PROPAGATION IN THE NUCLEAR MEDIUM

Chair: Nicola Bianchi (I, INFN Frascati, I)

- 09.00 **Pasquale Di Nezza** (I, INFN Frascati, I)
*Nuclear medium effect in deep-inelastic scattering
hadronization processes*
- 09:30 Discussion
- 09:35 **Xin-Nian Wang** (US, University of California, Berkeley, US)
*Modified Fragmentation Function and Jet Quenching at
RHIC*
- 10:05 Discussion
- 10:10 **Boris Kopeliovich** (RU, Max-Planck-Institut für
Kernphysik, Heidelberg, D)
Hadron propagation in nuclei
- 10:40 Discussion
- 10.45 Coffee break

Session III and IV (continued): Contributed papers

Chair: Nicola Bianchi (I, INFN Frascati, I)

- 11.15 **Alberto Accardi** (I, Columbia University, I)
Hadron production in deep inelastic lepton-nucleon
scattering
- 11:27 Discussion
- 11:30 **Francois Arleo** (F, EPT* Trento, I)
Quenching of hadron spectra in DIS on nuclear targets
- 11:42 Discussion
- 11:45 **Thomas Falter** (D, University of Giessen, D)
Hadron formation and attenuation in DIS off nuclei
- 11:57 Discussion
- 12:00 **Arie Bodek** (US, Rochester University, US)
New L/T separated measurements of spin-averaged
structure functions at large x
- 12:12 Discussion
- 12:15 **Peter Richard Crompton** (UK, University of Regensburg, D)
The critical endpoints of QCD at finite baryon densities
- 12:27 Discussion
- 12:30 **Cristian Pisano** (I, University of Dortmund, D)
The photon content of the (un)polarised nucleon and the
QED Compton process in $ep \rightarrow e\gamma X$ and $ep \rightarrow e\gamma X$
- 12:42 Discussion
- 13.00** **Lunch**

14.00 Half-day excursion
20.00 **Conference Dinner**

Friday 10 October

Session V: NUCLEON FORM FACTORS AND POLARIZABILITIES

Chair: Kees de Jager (NL, Thomas Jefferson National Accelerator Facility, US)

09.00 **Frank Maas** (D, University of Mainz, D)
The nucleon form factors: Workshop summary

09:30 Discussion

09.35 **Paul Souder** (US, Syracuse University, US)
Parity Violation in electron scattering: Workshop summary

10:05 Discussion

10:10 **Barbara Pasquini** (I, University of Pavia, I)
Sum rules and polarizabilities of the nucleon

10.40 Discussion

10.45 Coffee break

11.15 **POSTER SESSION**

13.00 Lunch

Session VI: HIGHLY EXCLUSIVE PROCESSES

Chair: Jean-Marc Laget (F, CEA Saclay, F)

16.30 **Ronald Gilman** (US, Rutgers University, Newport News, US)
Deuteron photodisintegration at high energies

17:00 Discussion

17:05 **Marco Battaglieri** (I, INFN Genova, I)
Exclusive Vector Meson Photo and Electroproduction

17:35 Discussion

17:40 **Rory Miskimen** (US, University of Massachusetts, US)
Virtual Compton Scattering experiments

18:10 Discussion

18.15 Coffee break

Sessions V and VI (continued): Contributed papers

Chair: Jean-Marc Laget (F, CEA Saclay, F)

18.45 **Silvia Niccolai** (I, CEA Saclay F)
Three-body photodisintegration of the ^3He measured with CLAS

18:57 Discussion

19:00	Laura Elisa Marcucci (I, University of Pisa, I) <i>Photo and electro-disintegration of ^3He and pd radiative capture</i>
19:12	Discussion
19:15	Javier Vignote (E, Complutense de Madrid, E) <i>Polarization transfer ratio in $(e,e'p)$ reactions</i>
19:27	Discussion
19:30	Rikki Roche (US, Old Dominion University, US) <i>Polarized response function and multipole amplitude extraction in pion electroproduction</i>
19:42	Discussion
19:45	Thomas Spitzenberg (D, University of Mainz, D) <i>$N \rightarrow \Delta$ deep virtual Compton scattering in a relativistic constituent quark model</i>
19:57	Discussion
20:00	Giovanni Salmè (I, INFN Roma-1, I) <i>Electromagnetic Form Factors of the pion in the space-like and time-like regions within the front-form dynamics</i>
20:12	Discussion
20:30	Dinner

Saturday 11 October

Session VII:

NUCLEON CORRELATIONS IN NUCLEI

Chair: Costas Papanicolas (GR, IASA, GR)

09.00	Eric Voutier (F, CNRS, Grenoble, F) <i>"Quasi free" nucleon knock-out from nuclei</i>
09.30	Discussion
09.35	Shalev Gilad (US, Massachusetts Institute of Technology Cambridge, US) <i>Multi-hadron emission in electron nucleus scattering</i>
10.05	Discussion
10:10	Jan Dirk Ryckebusch (B, University of Gent, B) <i>Final-state interactions of relativistic nucleons</i>
10:40	Discussion
10.45	Coffee break

Session VIII:

PREDICTION AND DISCOVERY OF A PENTAQUARK BARYON

Chair: Costas Papanicolas (GR, IASA, GR)

11:15	Maxim V. Polyakov (RU, Ruhr Universität Bochum, D) <i>Prediction of a pentaquark baryon</i>
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- 11:40 Discussion
- 11:45 **Takashi Nakano** (JP, University of Osaka, JP)
Evidence for a narrow $S=+1$ Θ^+ baryon resonance in photoproduction from the neutron at Spring-8
- 12:00 Discussion
- 12:05 **David J. Tedeschi** (US, University of South Carolina Columbia, US)
Observation of an exotic $S=+1$ Θ^+ baryon in exclusive photoproduction from the deuteron at CLAS
- 12:20 Discussion
- 12:25 **Avetik Airapetian** (AM, Randall Laboratory of Physics University of Michigan, US)
Evidence for a narrow $S=+1$ Θ^+ baryon state in quasi-real photoproduction at HERMES
- 13:40 Discussion
- 13.00 Lunch

Session IX: PERSPECTIVES

Chair: Dirk Ryckbosch (B, University of Gent, B)

- 15:00 **Ralf Kaiser** (D, University of Glasgow, UK)
Recoil detectors at HERMES-2 & COMPASS-2
- 15:20 Discussion
- 15:25 **Sergio Bertolucci** (I, INFN Frascati, I)
DAFNE-2
- 15:45 Discussion
- 15:50 **Kees de Jager** (US, Thomas Jefferson National Accelerator Facility, US)
Jlab at 12 GeV
- 16:10 Discussion
- 16:15 **Jun Imazato** (JP, KEK, JP)
J- PARC
- 16.35 Discussion
- 16.40 Coffee break

Section IX (continued): PERSPECTIVES

Dirk Ryckbosch (B, University of Gent, B)

- 17:10 **Carsten Schwarz** (D, GSI, D)
Antiprotons at GSI
- 17.30 Discussion
- 17.35 **Tim Greenshaw** (UK, Liverpool U., UK)
HERA-3
- 17:55 Discussion

18:00 **Richard Milner** (IR, Massachusetts Institute of Technology
Cambridge, US)
e-N colliders

18:20 Discussion

18:25 General Discussion

20.30 **Dinner**

Sunday 12 October

08.00 Breakfast and departure