

June 12-16, 2006



#### A. Pomodoro, Sfera n. 6

"Spheres are the perfect and magical solids... which I want to crack in order to trace and discover their internal ferments, so mysterious and alive, monstrous but pure."

Congress Center VILLA MONDRAGONE Università degli studi di Roma Tor Vergata Monte Porzio Catone, Rome, Italy



# **PROGRAM**

# Monday, June 12

# 12:30-13:20 Registration and Brunch at Villa Mondragone

## **Opening Session**

Chair: Enzo De Sanctis (Frascati)		
13:30-13:40	Welcome	
13:40-14:00	Maria Curatolo (Frascati)	The LNF road map
14:05-14:35	Terry Sloan (Lancaster)	Electron-Nucleon scattering from
		EMC to H1

## **Session 1-I: Exclusive Reactions and Generalized Parton Distributions**

Chair: Enzo Do	e Sanctis (Frascati)	
14:40-15:20	Markus Diehl (DESY)	GPDs for non-experts
15:25-16:05	Christian Weiss (JLab)	GPDs for experts (technical review)
16:15-16:45	Coffee Break	
16:45-17:05	Matthias Burkardt (N.Mexico)	Hadron tomography
17:10-17:50	Paul Rakow (Liverpool)	GPD calculations on the Lattice
		(pedagogical)
17:55-18:35	Philipp Haegler (Munich)	GPDs from Lattice QCD



# Tuesday, June 13

#### Session 1-II: Exclusive Reactions and Generalized Parton Distributions

Chair: Peter K	roll (Wupperthal)	
09:00-09:40	Thorsten Feldmann (Siegen)	Highlights from Trento Workshop
09:45-10:25	Xavier Janssen (Bruxelles)	H1&ZEUS results on exclusive reactions
10:30-11:00	Coffee Break	
11:00-11:40	Cynthia Hadjidakis (Frascati)	HERMES results on exclusive reactions
11:45-12:05	Andrzej Sandacz (Warsaw)	Exclusive ρ-production at COMPASS
12:10-12:30	Charles Hyde-Wright (ODU)	JLab-Hall A results on DVCS
12:35-12:55	Latifa Elouadhiri (JLab)	Report from JLab-Hall B
	presented by Harut Avakian	-
13:00-13:20	Kees de Jager (JLab)	Wide Angle Compton Scattering
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13:30-14:30	Lunch	

#### **Session 1-III: Exclusive Reactions and Generalized Parton Distributions**

Chair: Klaus (	Goëke (Bochum)	
14:30-14:50	Dieter Muller (Arizona)	DVCS on deuteron
14:55-15:15	Simonetta Liuti (Virginia)	Space-time Picture of Nuclear Effects in QCD
15:20-15:35	Petr Zavada (Prague)	Structure functions and intrinsic quark orbital motion
15:40-15:55	Zhenyu Ye (DESY)	Transverse Target-Spin Asymmetry associated with DVCS on the proton
16:00-16:15	Armine Rostomyan (DESY)	Transverse Target Spin Asymmetry of exclusive $\rho^0$ -mesons at HERMES
16:20-16:50	Coffee Break	
16:50-17:05	Manuel Pincetti (Pavia)	Chiral-Odd and Transversity in Light Front Costituent Quark Models
17:10-17:25	Asmita Mukherjee (Mumbay)	Hadron Optics: Patterns in DVCS
17:30-17:45	Elvio Di Salvo (Genova)	The QCD parton model: a useful approximation



#### Wednesday, June 14

#### Session 2-I: Distribution and Fragmentation Functions. Transversity

Chair: Mauro	Anselmino (Torino)	
09:00-09:40	Alessandro Bacchetta (DESY)	TMD and Transversity for non-experts
09:45-10:25	Andreas Metz (Bochum)	TMD and Transversity for experts
10:30-11:00	Coffee Break	
11:00-11:40	Gunar Schnell (Gent)	HERMES results on TMD and Transversity
11:45-12:25	Anna Martin (Trieste)	Transverse spin measurements in
		COMPASS
12:30-12:50	Steve Heppelmann (Penn State	) RHIC results on Transversity
12:55-13:15	Ralf Seidl (Urbana)	Chiral-odd Fragmentation functions at Belle
13:20-14:20	Lunch	

#### Session 2-II: Distribution and Fragmentation Functions. Transversity

Chair: Franco Bradamante (Trieste)		
14:20-14:40	Harut Avakian (JLab)	Studies on transverse spin effects at JLab
14:45-15:00	Ulrike Elschenbroich (Gent)	The Transverse Spin Effects in Kaon
		Production at HERMES
15:05-15:20	Peter Schweitzer (Bochum)	Azimuthal asymmetries in semi-
		inclusive DIS and electron positron
		annihilation
15:25-15:40	Leonard Gamberg (Penn State	Berks) Naive T-Odd Correlations in
		Single Spin and Azimuthal Asymmetries
15:45-16:00	Aram Kotzinian (Torino)	Double spin azimuthal asymmetry A <sub>LT</sub>
		and A <sub>LL</sub> in semi-inclusive DIS

#### 16:05-16:35 Coffee Break

# 16:35-18:30 Round Table: Contributions on different field on how to investigate the quark orbital angular momentum.

#### **Convenor: Delia Hasch (Frascati)**

- Introduction [Delia Hasch (Frascati)]
- What do we already know about the OAM [Andy Miller (TRIUMF)]
- What can we learn on OAM from exclusive processes [Markus Diehl (DESY), theory; Harut Avakian (JLab), experiments]
- What can we learn on OAM from processes involving TMDs [Umberto D'Alesio (Cagliari), theory; Christine Aidala (Amherst), experiments]
- Can we link the information from exclusive processes and from TMD measurements? [Matthias Burkardt (N. Mexico]



## Thursday, June 15

# Session 2-III: Distribution and Fragmentation Functions. Transversity.

Chair: Piet Mulders (Amsterdam)			
09:00-09:20	Simon Albino (DESY)	Status on Unpolarized Fragmentation	
		Functions	
09:25-09:40	Cristian Pisano (Hamburg)	The QCD evolution of $F_p^2$ at small x	
09:45-10:05	Lara De Nardo (DESY)	Helicity distributions at HERMES	
10:10-10:25	Cedran Bomhof (Amsterdam)	Universality of single spin asymmetries	
		in hard processes	
10:30-11:00 Coffee Break			
10.30-11.00	O Coffee Break		
11:00-11:30	Naohito Saito (Kyoto)	JPARC	
11:35-11:50	Anatoly Efremov (JINR)	The Sivers Effect in SIDIS and in Drell-	
11.55 11.60	presented by P. Schweitzer	Yan Process	
11:55-12:10	Gary Goldstein (Tufts)	Azimuthal Asymmetries in Unpolarized	
	2 112 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	$\overline{p}p$ Drell-Yan Processes and	
		Transversity-odd Distributions	
12:15-12:30	Marco Radici (Pavia)	Transversity and inclusive $2\pi$ -	
	,	production	
12:35-12:50	Francesca Giordano (Ferrara)	Evidence for a single spin asymmetry in	
		$2\pi$ semi-inclusive DIS on a transversely	
		polarized hydrogen target	
12:55-13:10	Federico A. Ceccopieri (Parma)	Transverse momentum distributions in	
		semi-inclusive DIS	

#### **13:15 Picture**

13:30-14:30 Lunch

#### **Session 3-I: Future Measurements and Facilities**

#### Chair: Kees de Jager (JLab)

14:30-14:50	Horst Fischer (Freiburg)	Future Muon/Pion-Nucleon scattering at CERN
14:55-15:15	Ralf Kaiser (Glasgow)	Future HERMES Physics with GPDs
15:20-15:40	V. Burkert (JLab)	GPDs future at JLab
	presented by H. Avakian	
15:45-16:05	Xiaodong Jiang (JLab)	Jefferon Lab's perspective on transversity
		measurements at 6 GeV and 12 GeV

16:10-16:40 Coffee Break



17:00-17:15

17:20-17:35

#### 2<sup>nd</sup> Workshop on the QCD Structure of the Nucleon

16:40-16:55 Maria Elena Boglione (Torino) SIDIS cross sections and Spin

Asymmetries: predictions for ongoing

and future experiments

Accessing Transversity via Collins and Christine Aidala (Amherst)

interference fragmentation at RHIC Single Spin Asymmetry from pomeron-

odderon interference

#### 20:00 Social Dinner at The Casina Valadier in Rome

Matti Jarvinen (Helsinki)



Casina Valadier rises up on the ancient Collis Hortulorum, the highest point of Pincio, where in the past great Roman families owned the most sumptuous and vast gardens in Rome. It was built between 1816 and 1837 by Giuseppe Valadier, a well-known Roman architect and urban planner, involved in the important restoration of Piazza Del Popolo and Pincio in Rome. Valadier revised in neoclassical style the prior

Casino Della Rota, a 16th century building built on the remains of an ancient Roman cistern.

From the beginning, Casina was planned and built to be used as a meeting place after the manner of French Bistro but not withstanding the incredible beauty of the place and the view, a lot of time was needed to obtain the satisfaction of the Romans, patrons of other famous meeting places such as the Caffè Veneziano on the Corso or Nazzarri in Piazza di Spagna.

Only after the First World War did Casina become the most fashionable place in Rome, a haunt for artists, intellectuals and political figures of the world. In Casina Valadier album of honour there auto-graphs celebrated of personalities such as Gandhi, King Farouk, Strauss, Pirandello and many more.



#### Friday, June 16

#### **Session 3-II: Future Measurements and Facilities**

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09:00-09:20	Umberto D'Alesio (Cagliari)	TMD Theory, future
09:25-09:45	Paul Newman (Birmingham)	The LHEC (eN@CERN) Project
09:50-10:10	Kees de Jager (JLab)	Electron Light Ion Collider at CEBAF
10:15-10:35	Richard Milner (MIT)	ERHIC

#### **10:40-11:10** Coffee Break

11:10-11:30	Helmuth Koch (Bochum)	PANDA at GSI
11:35-11:55	Paola Ferretti Dalpiaz (Ferrara)	PAX at GSI
12:00-12:20	Matthias Grosse Perdekamp (Illinois)	RHIC-II

## **Concluding Session**

12:25-12:55	Dennis Sivers (Michigan)	Summary and Outlook

13:15-14:15 Lunch



# CONGRESS CENTER VILLA MONDRAGONE

#### UNIVERSITA' DEGLI STUDI DI ROMA TOR VERGATA





Villa Mondragone is one of the most beautiful "Ville Tuscolane".

Owned by the University since 1981 it has, throught the centuries, been a theatre of important events as well as the the residence of popes and famous families.

Emerging from the ruins of the Villa of the Quintili, who were Roman consuls, it was in its maximum splendour during the epoc of the Borghese family.

In the 1800's it underwent a period of slow decline until it was finally abandoned. In 1981 it was sold by the Order of the Jesuits to the University.

Pope Gregory XIII, whose heraldic dragon led to call the villa "Mondragone", used regularly the villa as summer residence, guest of Cardinal Altemps: here, on February 24, 1582 he promulgated the document (the papal bull "Inter gravissimas") which issued the reform of the calendar now in use and known as Gregorian Calendar.

Courtesy of Centro Congressi e Rappresentanza Villa Mondragone - Università degli Studi di Roma Tor Vergata