XXXIV INTERNATIONAL SYMPOSIUM ON
MULTIPARTICLE DYNAMICS

Sonoma State University, Rohnert Park, California, USA
July 26-August 1, 2004
Preliminary scientific program

July 27, Tuesday
Opening Session
8:40 Bill Gary (UC Riverside), Lynn Cominsky (Sonoma State),
    Eduardo Ochoa (Sonoma State)
Morning session: Soft Interactions
Organizers: M. Grosse-Perdekamp and G. Gustafson
8:55 Rick Field (Florida): Minimum bias and the underlying event
     in Run 2 at CDF
9:25 Stefan Kretzer (BNL): Fragmentation functions
9:50 Tetsufumi Hirano (BNL): Hydrodynamic approaches to relativistic
    heavy ion collisions
10:20 Coffee break
10:50 Viatcheslav Kuvshinov (NAS Minsk): Quark correlations and instable
     movement in the confinement region
11:10 Hui Long (UCLA): Strange quark dynamics at RHIC
11:35 Ernst Sichtermann (LBNL): Physics with Polarized Protons at RHIC
12:05 Ingrid Gregor (DESY-Zeuthen): Transverse Spin Physics at Hermes

Afternoon session: Heavy flavors and particle production
Organizers: H. Huang and K. Werner
14:30 Julia Velkovska (Vanderbilt): Production and flow of identified
     hadrons at RHIC
14:55 Rudy Hwa (Oregon): High pt physics at RHIC and evidence of
     recombination
15:25 Jörg Raufeisen (SLAC): Probing the nuclear gluon density with
     heavy quarks
15:50 Zhangbu Xu (BNL): Open charm production at RHIC
16:15 Coffee break
16:45 Daniela Bauer (Indiana): Bottom and top quark results from
the Tevatron
17:10 Richard Lander (UC Davis): Charm production at the Tevatron
17:35 Steve Ellis (U. Washington): In search of lonely top quarks at
the Tevatron
18:00 Doris Kim (Illinois): Semileptonic charm decays and QCD

**July 28, Wednesday**

**Morning session: Fluctuations and Correlations**

Organizers: J. Mitchell, R. Soltz and E. de Wolf

8:40 Wolfram Kittel (Nijmegen): Fluctuations and correlations: introduction
and overview
9:25 Jorge Dias de Deus (ISTC Lisbon): Multiplicity fluctuations in hadron-
hadron and heavy ion collisions and the percolating string model
9:50 Liu Qin (CCNU Wuhan): Probing hadron-production processes using new
statistical methods
10:15 Coffee break
10:45 Sharka Todorova (IOP Prague): BEC in $e^+e^- \rightarrow WW$ events from LEP
11:10 Dan Magestro (Ohio State): Freeze-out and HBT interferometry
11:35 Tamas Csorgo (Budapest): Bose-Einstein correlations and the anomalous
dimension of QCD
12:05 Raluca Muresan (NBI Copenhagen): Bose-Einstein correlation studies
at HERA-B

**Afternoon session: Fluctuations and Correlations, continued**

14:30 Yogiro Hama (Sao Paulo): Effects of fluctuating initial conditions and
continuous emission on the hydro-description of two-pion interferometry
14:50 R. Jeff Porter (U. Washington): Correlation structures of soft and semi-
hard components in pp collisions at $\sqrt{s} = 200$ GeV

**Afternoon session continued: Jets**

Organizers: V.A. Khoze, A. Korytov and W. Metzger

15:15 Yuri Dokshitzer (PMC Paris): Historical and futuristic aspects of
perturbative and non-perturbative QCD jet physics
15:55 Giulia Zanderighi (Fermilab): Principles of general final-state
resummation and automated implementation
16:20 Coffee Break
16:50 George Sterman (Stony Brook): Event shape/energy flow correlations
17:15 Leif Lönnblad (Lund): Monte Carlo generators
17:45  Bernard Andrieu (LPNHE Paris): Jet finding algorithms at Tevatron
18:10  Lee Sawyer (Louisiana Tech): Jet Physics at the Tevatron

July 29, Thursday

Morning session: *Jets, continued*

8:40  CDF speaker: Gamma/Z/W+jets x-sections at Tevatron
9:05  Klaus Hamacher (Wuppertal): Fragmentation results from LEP
9:30  Claudia Glasman (Madrid): Jet production at HERA
9:55  Coffee break
10:15 Alexander Pronko (Florida): Jet Fragmentation in p\(\bar{p}\) collisions
10:40 Ivan Vitev (Iowa State): Jets in nuclear collisions
11:05 James Rohlf (Boston U.): Physics with jets at the LHC

Afternoon: *Excursion*

July 30, Friday

Morning session: *Particle Astrophysics*

Organizers: L. Cominsky and F. Halzen

8:40  Francis Halzen (Wisconsin): Particle astrophysics with cosmic hadrons, photons and neutrinos
9:20  Steve Ritz (Goddard): GLAST and Gamma-ray Astrophysics
10:00 Luis Anchordoqui (Northeastern): Pitch black: exploring the universe beyond the photon window
10:40 Coffee break
11:10 Tesesa Montarulii (Bari): Neutrino astronomy with the ANTARES telescope
11:50 Ina Sarcevic (Arizona): Tracing very high energy neutrinos from cosmological distances in ice
12:10 Guey-Lin Lin (National Chiao-Tung University, Taiwan): Tau neutrino astronomy at GeV neutrino energies

Afternoon session: *Dense Matter*

Organizers: L. McLerran and R. Seto

14:30  Rich Seto (Riverside): The first three years at RHIC – a critical review
15:10  Elena Ferreiro (Santiago, Spain): Saturation: CGC and color sources
15:35  Sergei Voloshin (Wayne State): Dense matter flow
16:00  Mike Miller (MIT): Jet measurements at RHIC
16:25  Coffee break
16:55  Peter Seyboth (MPI Munich): Indications for the onset of deconfinement in Pb+Pb collisions at the CERN SPS from NA49
17:20 Enrico Cattaruzza (Trieste): Cronin effect and energy conservation constraints in high energy proton-nucleus collisions
17:45 Nikos Antoniou (Athens): Observational aspects of critical QCD
18:10 Giorgio Calucci (Trieste): Debye screening in the q-qbar plasma

July 31, Saturday

Morning session: Small-x and diffraction
Organizers: E. Elsen, D. Goulianos and A. White

8:40 Kerstin Borras (DESY): Hard diffraction at HERA and the Tevatron
9:25 Christian Kiesling (MPI Munich) Partonic interpretation of diffraction at HERA
9:50 Stan Brodsky (SLAC): Novel QCD aspects of hard diffraction and single-spin asymmetries
10:20 Coffee Break
10:50 Jochen Bartels (Hamburg): Saturation in deep inelastic scattering
11:15 Mary Convery (Rockefeller): Results on Diffraction at CDF
11:40 Eckhard Elsen (DESY): Status and prospects for low x physics at HERA
12:05 Tinne Anthonis (Antwerp): The H1 forward proton taggers: physics prospects

Afternoon session: Small-x and diffraction, continued

14:30 Dino Goulianos (Rockefeller): Diffraction from the deep sea
14:55 Alan White (Argonne): The sextet Higgs mechanism and the pomeron
15:20 Chung-I Tan (Brown): High energy scattering and gauge/string duality
15:45 Gosta Gustafson (Lund): Effects of energy conservation in the Balitski-Kovchegov equation
16:10 Coffee break
16:40 Kirill Tuchin (BNL): Manifestation of the Color Glass Condensate in particle production at RHIC

Afternoon session continued: Special topics
Organizer: B. Gary

17:05 Giula Pancheri (Frascati): Total cross-sections and Bloch-Nordsieck gluon resummation
17:30 Laszlo Jenkovszky (Kiev): Bootstrapping Generalized Parton Distributions
17:50 Yogendra Srivastava, (Frascati): Hadronic elastic scattering sum rule for the TEVATRON, RHIC and LHC
18:15 Roberto Ugoccioni (Torino): Multiplicity distributions in pp collisions
18:35 Vladimir Nechitailo (Lebedov Institute): Multiplicity distributions in the IPPI-model of hadron interactions

August 1, Sunday
Closing session
Organizer: B. Gary

9:00 Eric Linder (LBNL): Guest Colloquium, Dark Energy and the Dynamics of the Universe

10:00 Coffee break

10:30 Wolfgang Ochs (MPI Munich): Conference Summary