Continuous Advances in QCD 2002 / Arkady Fest

Talk Schedule

Symposium -- May 17-18

All talks of the symposium were review and summary talks and included a historical component/perspective.

Workshop -- May 20-23

The morning session talks of the workshop were review and summary talks.

Friday, May 17 - Room 3-180 Electrical Engineering/Computer Science Building

<table>
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<tr>
<th>Time</th>
<th>Activity</th>
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<tr>
<td>8:15-8:55</td>
<td>Registration</td>
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<tr>
<td>8:55-9:00</td>
<td>Keith Olive, University of Minnesota</td>
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<td>Welcome and Opening Remarks</td>
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<td>9:00-9:55</td>
<td>Gerald Dunne, University of Connecticut</td>
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<td></td>
<td>Perturbative/Nonperturbative connection in Quantum Mechanics and field theory</td>
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<td>10:00-10:30</td>
<td>Coffee Break</td>
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<tr>
<td>10:30-11:25</td>
<td>Johan Bijnens, Lund University</td>
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<td>Penguins 2002</td>
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<td>11:30-12:25</td>
<td>Heiri Leutwyler, University of Bern</td>
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<td>Electromagnetic Form Factor of the Pion</td>
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<td>12:30-14:30</td>
<td>Lunch</td>
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<td>14:30-15:25</td>
<td>Mary Kay Gaillard, University of California, Berkley &amp; LBNL</td>
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<td></td>
<td>Probing New Physics: from Charm to Superstrings</td>
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<tr>
<td>15:30-16:00</td>
<td>Coffee Break</td>
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</tbody>
</table>
16:00-16:55  Mark Srednicki, University of California, Santa Barbara
Axions: Past, Present, and Future

17:00-17:55  Bruno Zumino, LBL
Seiberg-Witten map for Noncommutative Gauge Theories

Saturday, May 18 - Room 3-180 Electrical Engineering/Computer Science Building

9:00-9:55  Dmitry Kazakov, JINR/ITEP
Renormalization Properties of softly Broken SUSY Gauge Theories

10:00-10:30  Coffee Break

10:30-11:25  Igor Klebanov, Princeton University
Supergravity Duals of N=1 Supersymmetric Gauge Theories

11:30-12:25  Matt Strassler, University of Pennsylvania
Arkadia: Beyond All Perturbations

12:30-14:30  Lunch

14:30-15:25  Adam Ritz, Cambridge University
(Dis)assembling composite supersymmetric solitons

15:30-16:00  Coffee Break

16:00-16:55  Georgi Dvali, New York University
Vacuum Energy and Infinite volume Extra Dimension

17:00-17:55  Frank Wilczek, Massachusetts Institute of Technology
QCD at High Density

Monday, May 20 - Room 3-180 Electrical Engineering/Computer Science Building
9:00-9:55  Robert Jaffee, Massachusetts Institute of Technology
Casimir Effects: From Grounded Plates to the Standard Model

10:00-10:30  Coffee Break

10:30-11:25  Antti Niemi, Uppsala University
Aspects of String Variables and Yang-Mills Theory

11:30-12:25  Edward Shuryak, SUNY, Stony Brook
Multiple uses of the QCD instantons

12:30-14:30  Lunch

14:30-15:00  Victor Chernyak, Novosibirsk
On phase transitions in SUSY theories

15:05-15:35  John Hiller, University of Minnesota, Duluth
Nonperturbative solution of supersymmetric gauge theories

15:40-16:10  Coffee Break

16:15-16:45  Dmitri Antonov, INFN
Finite temperature behavior of the (2+1)D Georgi-Glashow model with and without quarks

16:50-17:20  Andrei Smilga, University of Nantes
Ultraviolet chop-off and supersymmetric beta function

17:25-17:55  Konstantin Zarembo, Uppsala University
Testing AdS/CFT correspondence with Wilson loops

Tuesday, May 21 - Room 3-180 Electrical Engineering/Computer Science Building

9:00-9:55  Alexander Khodjamirian, University of Karlsruhe
QCD Sum Rules: A Working Tool for hadronic Physics
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<td>Coffee Break</td>
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<td>10:30-11:25</td>
<td>Nikolai Uraltsev, Milan</td>
<td>Nonperturbative QCD in Heavy Quarks Decays</td>
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<td>11:30-12:25</td>
<td>Martin Beneke, RWTH Aachen</td>
<td>Renormalons</td>
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<td>12:30-14:30</td>
<td>Lunch</td>
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<td>14:30-15:00</td>
<td>Ian Balitsky, ODU/JLab</td>
<td>Renormalons as dilatation modes in the functional space</td>
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<td>15:05-15:35</td>
<td>Eric Braaten, Ohio State University</td>
<td>Perturbative QCD expansion of the leading particle effect in the hadroproduction of heavy mesons</td>
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<td>15:40-16:10</td>
<td>Coffee Break</td>
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<td>16:15-16:45</td>
<td>Harry Lipkin, Weismann Institute of Science</td>
<td>Experimental Challenges for QCD - The past and the future</td>
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<td>16:50-17:20</td>
<td>Ulrich Nierste, Fermilab</td>
<td>Lifetimes of heavy hadrons beyond leading logarithms</td>
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<td>17:25-17:55</td>
<td>Alexey Petrov, Wayne State University</td>
<td>Flavor, SU(3) and mixing in charmed mesons</td>
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<td>Wednesday, May 22 - Room 3-180 Electrical Engineering/Computer Science Building</td>
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<tr>
<td>9:00-9:55</td>
<td>Ken Konishi, University of Pisa</td>
<td>Monopoles, Vortices and confinement in Supersymmetric Theories</td>
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<td>10:00-10:30</td>
<td>Coffee Break</td>
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<tr>
<td>10:30-11:25</td>
<td>Alexei Yung, Petersburg Nuclear Physics Institute</td>
<td>Non-Abelian confinement via Abelian flux tubes in softly broken N=2 QCD</td>
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11:30-12:25  Zvi Bern, University of California, Los Angeles
Quantum Chromodynamics and the Future discovery of the Higgs Particle

12:30-14:30  Lunch

14:30-15:00  Matthias Burkardt, New Mexico State University
Geometric Interpretation of Generalized Parton Distributions

15:05-15:35  Einan Gardi, CERN
Resummation & power corrections in DIS structure functions at large Bjorken x

15:40-16:10  Coffee Break

16:15-16:45  Grigorii Pivovarov, Iowa State University
The status of the light-front quantization in gluodynamics

16:50-17:20  Eric Zhitnitsky, University of British Columbia
Strings and Domain Walls in Dense QCD

17:25-17:55  Glennys Farrar, New York University
A stable strange di-baryon accounts for Dark matter, without new physics

Thursday, May 23 - Room 3-180 Electrical Engineering/Computer Science Building

9:00-9:55  Greg Gabadadze, University of Minnesota
Axions and QCD vacuum 2002

10:00-10:30  Coffee Break

10:30-11:25  Ian Kogan, Oxford University/IHES/Orsay
Understanding Confinement in 1+2 Dimensions

11:30-12:25  Jac Verbaarschot, SUNY, Stony Brook
Dirac Spectrum in QCD/Real QCD

12:30-14:30  Lunch
14:30-15:00  Alexander Kovner, University of Plymouth  
Perturbative saturation and the soft Pomeron

15:05-15:35  Elena Goubankova, Massachusetts Institute of Technology  
Superconductivity from magnetic interaction induced by flow equations

15:40-16:10  Coffee Break

16:10-16:40  Ralf Hofmann, Max Planck Institute fuer Physik  
Non-perturbative Non-locality

16:45-16:55  Vladimir Miransky, University of Western Ontario  
Spontaneous Symmetry Breaking with Abnormal Number of Nambu-Goldstone Bosons and Kaon Condensation

17:00-17:55  Igor Shovkovy, University of Minnesota  
Color Superconductivity in Dense Quark matter

18:00-18:10  Mikhail Shifman, University of Minnesota  
Concluding Story

Registered Participants