

## INSTITUTE COLLOQUIA AND SEMINARS

April 1, 2005-March 31, 2006

### 2005

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| April 1  | Dr. Ralf Rapp, Cyclotron Institute,<br>Texas A&M University, College<br>Station, Texas  | <i>Thermal Field Theory and Instantons II</i>  |
| April 8  | Mr. Deqiang Sun, Cyclotron Institute,<br>Texas A&M University, College<br>Station, Texas  | <i>Bottomonium in QGP and Heavy-Ion<br/>Collisions</i>   |
| April 22 | Dr. Ralf Rapp, Cyclotron Institute,<br>Texas A&M University, College<br>Station, Texas  | <i>Thermal Field Theory and Instantons III</i>   |
| May 6    | Dr. Massimo Mannarelli,<br>Massachusetts Institute of<br>Technology, Cambridge,<br>Massachusetts  | <i>Hadronic Modes in the QGP</i>   |
| May 10   | Dr. Murad Sarsour, IUCF, Indiana<br>University, Bloomington, Indiana  | <i>Measurement of the Absolute Differential<br/>Cross Section for np Elastics Scattering near<br/>200 MeV</i>                      |
| June 21  | Professor Khoa Tien Dao, Institute<br>for Nuclear Science & Technique,<br>Vietnam Atomic Energy Commission,<br>Nghai Do, Hanoi, Vietnam | <i>Microscopic Study of the Quasi-Elastic<br/>Nuclear Scattering</i>   |
| July 5   | Dr. John Hardy, Cyclotron Institute,<br>Texas A&M University, College<br>Station, Texas   | <i>How Idiosyncratic is the Weak Force?</i>  |
| July 11  | Mr. James R. Musser, Cyclotron<br>Institute, Texas A&M University,<br>College Station, Texas  | <i>Measurement of the Michel Parameter <math>\rho</math> in<br/>Muon Decay</i>   |
| July 12  | Dr. Plamen Boutachkov, Department<br>of Physics, University of Notre Dame,<br>South Bend, Indiana                                       | <i>Development of New Techniques for Studies<br/>of Neutron Rich Exotic Nuclei: Spectroscopy<br/>of <math>{}^7\text{He}</math></i> |
| July 20  | Professor Akira Ono, Department of<br>Physics, Tohoku University, Sendi,<br>Japan   | <i>Density Dependence of the Symmetry Energy<br/>in Multifragmentation</i>   |
| July 26  | Dr. Cristina Bordeanu, NPL-CENPA,<br>University of Washington, Seattle,<br>Washington   | <i><math>{}^3\text{He}+{}^4\text{He}</math> Cross Section Measurement-Project<br/>Overview</i>                                     |

August 9	Dr. I. S. Towner, Queen's University, Kingston, Ontario, Canada	<i>The Current Status of <math>V_{ud}</math>, <math>V_{us}</math> and the Unitarity Test</i>
September 2	Dr. Daniel Cabrera, Cyclotron Institute, Texas A&M University, College Station, Texas	<i>Interaction of the <math>\theta^+</math> with the Nuclear Medium and its Effect on the Kaon Optical Potential</i>
September 9	Dr. Daniel Cabrera, Cyclotron Institute, Texas A&M University, College Station, Texas	<i><math>\Phi</math> and <math>\Omega</math> Mesons in a Nuclear Medium and the Nuclear Photoproduction Reaction</i>
September 13	Professor Raymond Moreh, Physics Department, Ben-Gurion University of the Negev, Beer-Sheva, Israel and Rensselaer Polytechnic Institute, Troy, New York	<i>Neutron Scattering of keV Neutrons from H- containing Samples and the Role of Quantum Entanglement</i>
September 16	Dr. Daniel Cabrera, Cyclotron Institute, Texas A&M University, College Station, Texas	<i><math>\Phi</math> and <math>\Omega</math> Mesons in a Nuclear Medium and the Nuclear Photoproduction Reaction II</i>
September 27	Dr. John C. Hagel, Cyclotron Institute, Texas A&M University, College Station, Texas	<i>An Overview of Relativistic Heavy-Ion Measurements over a Large Region of Phase Space</i>
October 7	Dr. Elena Gubankova, Massachusetts Institute of Technology, Cambridge, Massachusetts	<i>Superfluidity in Cold Atoms and in Dense Quark matter</i>
October 21	Mr. Nathan Grau, Iowa State University, Ames, Iowa	<i>Jet Correlations at RHIC</i>
October 21	Dr. Stefan Leupold, University of Giessen, Giessen, Germany	<i>Weinberg Sum Rules, Four-Quark Condensates and Chiral Restoration</i>
November 1	Dr. Adriana Banu, Cyclotron Institute, Texas A&M University, College Station, Texas	<i><math>^{108}\text{Sn}</math> Studied with Intermediate-Energy Coulomb Excitation</i>
November 8	Professor Charles J. Horowitz, IUCF Indiana University, Bloomington, Indiana	<i>Neutron Rich Matter in Heaven and Earth</i>
November 15	Mr. Au Kim Vuong, Cyclotron Institute, Texas A&M University, College Station, Texas	<i>New Effective Nucleon-Nucleon Interaction</i>
November 15	Mr. Lijun Qin, Cyclotron Institute, Texas A&M University, College Station, Texas	<i>p-A, A-A Collisions with NIMROD</i>

November 15	Mr. Yong Peng, Cyclotron Institute, Texas A&M University, College Station, Texas	<i>Systematics of Cross Sections for Target K - Vacancy Production in Heavy Ion Collisions</i>
November 29	Mr. Oleksiy Pochivalov, Cyclotron Institute, Texas A&M University, College Station, Texas	<i>Properties of Isoscalar Giant Dipole Resonance in Nuclei</i>
November 29	Mr. Tariq Ai-Abdullah, Cyclotron Institute, Texas A&M University, College Station, Texas	<i>Extracting the ANCs in Neutron Transfer Reactions to Determine the Reaction Rate for <math>^{22}\text{Mg}(p,\gamma)^{23}\text{Al}</math> and <math>^{17}\text{F}(p,\gamma)^{18}\text{Ne}</math></i>
November 29	Mr. Yongjun Zhai, Cyclotron Institute, Texas A&M University, College Station, Texas	<i>The Structure of <math>^{23}\text{Al}</math> and the Consequences on the <math>^{22}\text{Mg}(p,\gamma)^{23}\text{Al}</math> Stellar Reaction Rate</i>
December 6	Mr. Xinfeng Chen, Cyclotron Institute, Texas A&M University, College Station, Texas	<i>Giant Resonance Study by <math>^6\text{Li}</math> scattering</i>
December 6	Mr. August L. Keksis, Cyclotron Institute, Texas A&M University, College Station, Texas	<i>Quasiprojectile Fragmentation with 32 and 45 MeV/u <math>^{40}\text{Ar}</math>, <math>^{40}\text{Ca}</math> and <math>^{48}\text{Ca}</math> on <math>^{112}\text{Sn}</math> and <math>^{124}\text{Sn}</math></i>
December 6	Mr. Thomas Henry, Cyclotron Institute, Texas A&M University, College Station, Texas	<i>Nuclear <math>k_T</math> in <math>d+\text{Au}</math> Collisions from Multiparticle Jet Reconstruction at STAR</i>
December 13	Dr. M. Mukherjee, GSI/University of Innsbruck, Innsbruck, Austria	<i>Mass that Matters-Penning Trap Mass Spectroscopy on Rare Isotopes</i>
December 16	Dr. Bao-An Li, Department of Chemistry and Physics, Arkansas State University, Jonesboro, Arkansas	<i>Constraining the Radii of Neutron Stars with Terrestrial Nuclear Laboratory Data</i>

## **2006**

January 24	Mr. Changbo Fu, Cyclotron Institute, Texas A&M University, College Station, Texas	<i>Study of the Cluster Structures and Decay Properties of Drip Line Nuclei</i>
January 31	Professor H.M.M. Mansour, Physics Department, Faculty of Science, Cairo University, Giza, Egypt	<i>Asymmetric Nuclear Matter using Effective Potentials</i>
February 7	Dr. Xiaodong Tang, Physics Division, Argonne National Laboratory, Argonne, Illinois	<i>A New Measurement of the EI Component of the <math>^{12}\text{C}(\alpha,\gamma)^{16}\text{O}</math> Reaction</i>

February 14	Dr. Charles M. Folden III, Department of Chemistry, University of California, Berkeley and Nuclear Science Division, Lawrence Berkeley National Laboratory, Berkeley, California	<i>Production of Transactinide Elements in Cold Fusion Reactions at LBNL</i>
February 20	Mr. Thomas Henry, Cyclotron Institute, Texas A&M University, College Station, Texas	<i>Jet and Di-Jet Reconstruction in p+p and d+Au Collisions at RHIC</i>
February 24	Dr. Jorge Casalderrey, State University of New York, Stony Brook, New York	<i>Hydrodynamic Flow from Jets</i>
February 24	Dr. Sevil Salur, Yale University, New Haven, Connecticut	<i>Investigation of Hadronic Resonances with STAR</i>
March 7	Dr. Aurora Tumino, INFN, laboratori Nazionali del Sud, and University of Catania, Catania, Italy	<i>Measurement of the Bare Nucleus Cross Section via the Trojan Horse Method</i>
March 10	Dr. Michael Ramsey-Musolf, California Institute of Technology, Pasadena, California	<i>Electric Dipole Moments and the Origin of Baryonic Matter</i>
March 10	Dr. Gang Wang, Kent State University, Kent, Ohio	<i>Anisotropic Flow at RHIC Based on Transverse Deflection of Spectator Neutrons</i>
March 21	Dr. Rainer Fries, University of Minnesota, Minneapolis, Minnesota	<i>From Color Fields to Quark Gluon Plasma</i>
March 24	Dr. Lorenzo Ravagli, State University of New York, Stony Brook, New York	<i>A Study of the QCD Phase Diagram Based on Microscopic Models</i>