

## TALKS PRESENTED

April 1, 2003 – March 31, 2004

*Isoscalar Giant Dipole Resonance for Several Nuclei with  $A \geq 90$* , **Y.-W. Lui**, X. Chen, H.L. Clark, B. John, Y. Tokimoto and D.H. Youngblood, International Conference on Collective Motion in Nuclei Under Extreme Conditions (COMEX1), La Sorbonne, Paris, France, (June 2003).

*Compression Mode Giant Resonances and Nuclear Matter Compressibility*, **Y.-W. Lui**, **Invited Talk**, National Technical University in Athens, Athens, Greece, (June 2003).

*Radioactive Beams at Texas A&M University, Recent Results and Future Plans*, **R.E. Tribble**, RNB6, Argonne, Illinois, (September 2003).

*Recent Results for Astrophysical S Factors from Measurements of Asymptotic Normalization Coefficients*, **R.E. Tribble**, **Invited Talk**, OMEG03, Tokyo, Japan, (November 2003).

*Measurements of Asymptotic Normalization Coefficients – An Indirect Technique for Determining Capture Reaction Rates at Stellar Energies*, **R.E. Tribble**, Workshop on Nuclear Reactions on Unstable Nuclei and the Surrogate Reaction Technique, Asilomar, California, (January 2004).

*Jet Quenching at RHIC*, **C.A. Gagliardi**, **Invited Talk**, Wayne State University, Detroit, Michigan, (March 2004).

*Modern Particle Accelerators and Detectors: A Household Survey*, **C.A. Gagliardi**, **Invited Talk**, Nuclei and the Cosmos – Quark Matter 2004 Workshop for Science Teachers, Oakland, California, (January 2004).

*Jet Quenching at RHIC*, **C.A. Gagliardi**, **Invited Talk**, DNP Annual Meeting 2003, Tucson, Arizona, (November 2003).

*Jet Quenching at RHIC*, **C.A. Gagliardi**, **Invited Talk**, XXXI SLAC Summer Institute, Stanford, California, (August 2003).

*Jet Quenching at RHIC*, **C.A. Gagliardi**, **Invited Talk**, TRIUMF, Vancouver, British Columbia, Canada, (June 2003).

*Dimuon Production in Fermilab E866*, **C.A. Gagliardi**, **Invited Talk**, Nuclear Science Division, Lawrence Berkeley National Laboratory, Berkeley, California, (June 2003).

*TWIST: Measuring the Space-Time Structure of Muon Decay*, **C.A. Gagliardi** (for the TWIST Collaboration), **Invited Talk**, 8th Conf. Intersections Part. Nucl. Phys., New York, New York, (May 2003).

*Determination of Astrophysical S-Factors from the Breakup of Loosely Bound Nuclei at Intermediate Energies*, **L. Trache**, **Invited Talk**, Workshop on Nuclear Structure Physics Near the Coulomb Barrier: Into the 21<sup>st</sup> Century, Yale University, New Haven, Connecticut, (June 2003).

*Separation of Neutron-Rich DIR Products with MARS*, **L. Trache**, **Invited Talk**, Decay Spectroscopy Workshop, Oak Ridge National Laboratory, Oak Ridge, Tennessee, (August 2003).

*Indirect Methods in Nuclear Astrophysics*, **L. Trache**, **Invited Talk**, Institute for Physics and Nuclear Engineering, H. Hulubei, Bucharest, Romania, (October 2003).

*From Breakup to Nuclear Astrophysics:  $^8\text{B}$  and the  $S_{17}$  Astrophysical Factor*, **L. Trache**, DNP Annual Meeting 2003, Tucson, Arizona, (November 2003).

*Spectroscopic Factors vs Asymptotic Normalization Coefficients from Breakup and Transfer Reactions with Loosely Bound Nuclei*, **L. Trache**, **Invited Talk**, Workshop on Spectroscopic Factors, ECT, Trento, Italy, (March 2004).

*New Results in Superallowed Nuclear Beta Decay*, **J.C. Hardy**, **Invited Talk**, Conference on the Intersections of Particle and Nuclear Physics, CIPANP03, New York, (May 2003).

*New Results in Superallowed Nuclear Beta Decay*, **J.C. Hardy**, **Invited Talk**, Michigan State University, East Lansing, Michigan, (May 2003).

*High Precision Efficiency Calibration of an HPGe Detector from 50 keV to 4.8 MeV, with Measurements and Monte Carlo Calculations*, **J.C. Hardy**, **Invited Talk**, International Conference on Radiation Metrology, Dublin, Ireland, (June 2003).

*Delimiting the Standard Model with Superallowed Nuclear Beta Decay*, **J.C. Hardy**, **Invited Talk**, Oak Ridge National Laboratory, Oak Ridge, Tennessee, (September 2003).

*Delimiting the Standard Model with Superallowed Nuclear Beta Decay*, **J.C. Hardy**, **Invited Talk**, Arizona State University, Arizona, (October 2003).

*How Idiosyncratic Is the Weak Force?*, **J.C. Hardy**, **Invited Talk**, Inaugural R.E. Bell lecture, McGill University, Montreal, Quebec, Canada, (November 2003).

*Precise Half-life Measurement of the Decays of  $^{34}\text{Cl}$  and  $^{34}\text{Ar}$* , **V.E. Jacob**, E. Mayes, J.C. Hardy, R.G. Neilson, M. Sanchez-Vega, A. Azhari, C.A. Gagliardi, L. Trache and R.E. Tribble, APS Meeting, Philadelphia, Pennsylvania, (April 2003).

*Precise Ft-value Measurement for the Superallowed  $0^+ \rightarrow 0^+$  -Decay of  $^{22}\text{Mg}$* , J.C. Hardy, **V.E. Jacob**, M. Sanchez-Vega, R.G. Neilson, A. Azhari, C.A. Gagliardi, V.E. Mayes, X. Tang, L. Trache and R.E. Tribble, International Conference on the Labyrinth in Nuclear Structure, Crete, Greece, (July 2003).

*Accurate Ft-value Measurements for  $^{22}\text{Mg}$  and  $^{34}\text{Ar}$* , **V.E. Jacob**, J.C. Hardy, A. Azhari, C.A. Gagliardi, E. Mayes, R.G. Neilson, N. Nica, M. Sanchez-Vega, L. Trache and R.E. Tribble, APS meeting, Tucson, Arizona, (October 2003).

*Precise Efficiency Calibration of an HPGe Detector up to 3.5 MeV, with Measurements and Monte Carlo Calculations*, **N. Nica**, J.C. Hardy, V.E. Jacob and R.G. Helmer, APS meeting, Tucson, Arizona, (October 2003).

*Dynamics and Thermodynamics in Nuclear Collisions Near the Fermi Energy*, **J.B. Natowitz**, **Invited talk**, Arkansas State University, Jonesboro, Arkansas, (January 2003).

*Coalescence, Caloric Curves, Critical (?) Comportment*, **J.B. Natowitz**, **Invited talk**, Heavy Ion Conference 03, Montreal, Canada, (June 2003).

*Coalescence, Caloric Curves, Critical Behavior*, **J.B. Natowitz**, **Invited talk**, 10<sup>th</sup> Nuclear Physics Workshop in Kazimierz Dolny, Poland, (September 2003).

*Caloric Curves, Phase Diagrams and Limiting Temperature*, **J.B. Natowitz**, **Invited talk**, International Workshop on Multifragmentation 2003, Caen, France, (November 2003).

*Resonance Scattering  $^8\text{He}+p$  and  $T=5/2$  states in  $^9\text{Li}$* , **V.Z. Goldberg**, **Invited Talk**, VIII International Conference on Nucleus-Nucleus Collisions, Moscow, Russia, (June 2003).

*A New Approach to Spectroscopy of Neutron Rich Nuclei*, **V.Z. Goldberg**, **Invited Talk**, Halo 2003, St. Petersburg, Russia, (July 2003).

*Resonances in Drip Line Nuclei*, **V.Z. Goldberg**, **Invited Talk**, CFIF Workshop on Time Asymmetric Quantum Theory: The Theory of Resonances, Lisbon, Portugal, (July 2003).

*Nuclear Structure of  $^{15}\text{F}$  and  $^9\text{He}$* , **V.Z. Goldberg**, **Invited Talk**, National Superconducting Cyclotron Laboratory, East Lansing, Michigan, (October 2003).

*Resonance Scattering Studies at the Borders of Nuclear Stability*, **V.Z. Goldberg**, **Invited Talk**, BNL, Berkeley, California, (March 2004).

*Energy Dependence of the Isotopic Composition in Nuclear Fragmentation*, **S.J. Yennello**, APS Meeting, Philadelphia, Pennsylvania, (April 2003).

*Isospin Dependence of Intermediate Mass Fragments in  $^{124}\text{Sn}$ ,  $^{124}\text{Xe} + ^{124}\text{Sn}$ ,  $^{112}\text{Sn}$* , **D.V. Shetty**, APS Meeting, Philadelphia, Pennsylvania, (April 2003).

*Neutron-Rich Rare Isotope Production around the Fermi Energy*, **G.A. Souliotis**, M. Veselsky, G. Chubarian, L. Trache and S.J. Yennello, VIII International Conference on Nucleus-Nucleus Collisions (NN03), Moscow, Russia, (June 2003).

*Rare Isotope Production and Nuclear Dynamics Studies at Fermi Energies*, **G.A. Souliotis**, **Invited Talk**, Institute of Nuclear Physics of NCSR 'Demokritos', Athens, Greece, (June 2003).

*Novel Routes to Produce Extremely Neutron-Rich Rare Isotopes*, **G.A. Souliotis**, **Invited Talk**, Physics Division, Argonne National Laboratory, Argonne, Illinois, (February 2004).

*Gamma-Ray Multiplicities From the Heavy Ion Induced Fission Reactions*, **G. Chubarian**, **Invited Talk**, VIII International Conference on Nucleus-Nucleus Collisions, Moscow, Russia, (June 2003).

*A Multiphase Transport Model*, **C.M. Ko**, **Invited Talk**, International Workshop on Transport Model for Heavy Ion Collisions, Trento, Italy, (May 2003).

*Symmetry Energy Effects in Heavy Ion Collisions*, **C.M. Ko**, **Invited Talk**, International Conference on Topics in Heavy Ion Collisions, Montreal, Canada, (June 2003).

*Transport Model for Heavy Ion Collisions*, **C.M. Ko**, **Invited Talk**, International School on Nuclear Physics, Erice, Italy, (September 2003).

*Cross Sections for Pentaquark Baryon Production in Photonucleon Reactions*, **C.M. Ko**, **Invited Talk**, Penta-Quark 2003 Workshop, Jefferson Lab, Newport News, Virginia, (November 2003).

*Transport Model Description of Flows at RHIC*, **C.M. Ko**, **Invited Talk**, RIKEN BNL Workshop on Collective Flow and QGP Properties, Brookhaven National Laboratory, Upton, New York, (November 2003).

*Quark Coalescence Model*, **C. M. Ko**, **Invited Talk**, Mini-workshop on Quark Recombination, Institute for Nuclear Theory, Seattle, Washington, (December 2003).

*Asymptotic Three-Body Coulomb Scattering Wave Function and the  $^{208}\text{Pb}({}^8\text{B}, {}^7\text{Be } p){}^{208}\text{Pb}$  Coulomb Breakup*, **A.M. Mukhamedzhanov**, Few-Body 17. TUNL, Duke University, Durham, North Carolina, (June 2003).

*Asymptotic Three-Body Coulomb Scattering Wave Function and Coulomb Breakup Processes*, **A.M. Mukhamedzhanov**, DREB 2003 (Direct reactions with the exotic beams), University of Surrey, Guilford, United Kingdom, (July 2003).

*Asymptotic Normalization Coefficients in Nuclear Astrophysics*, **A.M. Mukhamedzhanov**, **Invited talk**, Oak Ridge National Lab., Oak Ridge, Tennessee, (September 2003).

*Direct capture astrophysical factors*, NSCL, **A.M. Mukhamedzhanov**, **Invited talk**, Michigan State University, East Lansing, Michigan, (September 2003).

*Asymptotic Normalization Coefficients in Nuclear Astrophysics*, **A.M. Mukhamedzhanov**, **Invited talk**, Argonne National Lab., Illinois, (September 2003).

*Direct capture astrophysical factors*, **A.M. Mukhamedzhanov**, **Invited talk**, Notre Dame University, South Bend, Indiana, (October 2003).

*Charmonium and Open Charm in Heavy-Ion Collisions*, **R. Rapp**, **Invited Talk**, International Conference on Topics in Heavy-Ion Collisions, McGill University, Montreal, Canada, (June 2003).

*Charmonium and Open Charm in Heavy-Ion Collisions*, **R. Rapp**, Workshop on Aspects of Nonperturbative QCD – Hadrons and Thermodynamics, Rostock University, Rostock, Germany, (July 2003).

*Charmonium and Open Charm in Heavy-Ion Collisions*, **R. Rapp**, **Invited Talk**, Darmstadt University, Germany, (July 2003).

*Charmonium Suppression and Regeneration in Ultrarelativistic Heavy-Ion Collisions*, **R. Rapp**, **Invited Talk**, Workshop on Heavy Quarkonium, Fermi Lab., Batavia, Illinois, (September 2003).

*Theory of Electromagnetic and Charm Probes*, **R. Rapp**, **Invited Talk**, DNP 2003 Workshop on QCD, Confinement and Heavy-Ion Collisions, Tucson, Arizona, (October 2003).

$\pi^+\pi^-$  Emission at RHIC, **R. Rapp**, DNP Annual Meeting 2003, Tucson, Arizona, (November 2003),

*Theory Highlights of Quark Matter 2004*, **R. Rapp**, **Invited Talk**, XVII International Conference on Ultrarelativistic Nucleus-Nucleus Collisions (Quark Matter '04), Oakland, California, (January 2004).

*Status of of The Nuclear Matter Equation of States Determined From Compression Modes*, **S. Shlomo** and B.K. Agrawal, **Invited Talk**, VIII International Conference on Nucleus-Nucleus Collisions, Moscow, Russia, (June 2003).

*Microscopic Determination of Incompressibility Coefficient of Symmetric Nuclear Matter from Experimental Data on Compression Modes*, **S. Shlomo**, and B.K. Agrawal, **Invited Talk**, International Symposium on Exotic Nuclei (HALO03), St. Petersburg, Russia, (June 2003).

*Current Status of the Nuclear Matter Incompressibility Coefficient*, **S. Shlomo**, and B.K. Agrawal, **Invited Talk**, Workshop on Data Base Development for Nuclear Astrophysics and Nuclear Fusion, Almaty, Kazakhstan, (September 2003).

*Current Status of the Nuclear Matter Incompressibility Coefficient*, **S. Shlomo**, **Invited Talk**, International Workshop on Nuclear Response Under Extreme Conditions, The European Center for Theoretical Studies in Nuclear Physics and Related Areas (ECT), Trento, Italy, (October 2003).

*Nuclear Matter Incompressibility Coefficient*, **S. Shlomo**, **Invited Talk**, The 49th Meeting of The Israeli Physical Society, Bar-Ilan University, Ramat-Gan, Israel, (December 2003).

*Comments on Hartree-Fock and Random Phase Approximation Calculations and Self-Consistency*, **S. Shlomo**, **Invited Talk**, International Workshop on Spectroscopic Factors, The European Center for Theoretical Studies in Nuclear Physics and Related Areas (ECT), Trento, Italy, (March 2004).

*Consequences of Violation of Self-Consistency in Hartree-Fock Based Random Phase Approximation Calculations of the Nuclear Response Function*, **S. Shlomo**, **Invited Talk**, Munich Technical University, Munich, Germany, (March 2004).

*Quark Coalescence in the Parton Transport Model*, **L.W. Chen**, **Invited Talk**, Mini-workshop on Quark Recombination, Institute for Nuclear Theory, Seattle, Washington, (December 2003).

*Two-Nucleon Correlation Functions and  $t^3\text{He}$  Ratio As Probes of the Nuclear Symmetry Energy*, **L.W. Chen**, **Invited Talk**, National Superconducting Cyclotron Laboratory, Michigan State University, East Lansing, Michigan, (February 2004).

*Equation of State and Nuclear Dynamics of Asymmetric Nuclear Matter*, **V. Greco**, Conference on Relativistic Structure Models of the Physics of Radioactive Nuclear Beams, Bad Honnef, Germany, (May 2003).

*Parton Coalescence at RHIC*, **V. Greco**, International Conference on Topics in Heavy Ion Collisions, Montreal, Canada, (June 2003).

*Coalescence and Fragmentation at RHIC*, **V. Greco**, Meeting of the INFN working group on the Phenomenology of Quark-Gluon Plasma, University of Catania, Italy, (December 2003).

*Hadronization via Coalescence*, **V. Greco**, Winter workshop on Nuclear Dynamics, Trelawny Beach, Jamaica, (March 2004).