

**TALKS PRESENTED**  
**April 1, 2000 - March 31, 2001**

*Isoscalar Giant Resonances and Nuclear Matter Compressibility*, **D. H. Youngblood**, **Invited Talk**, 7<sup>th</sup> International Topical Conference on Giant Resonances, Osaka, Japan (2000).

*Giant Monopole Resonance and Nuclear Matter Compressibility*, **D. H. Youngblood**, **Invited Talk**, Konan University, Kobe, Japan (June 2000).

*Improvement on Giant Resonance Measurement*, **Y. -W. Lui**, **Invited Talk**, Konan University, Kobe, Japan (June 2000).

*Compression Mode Giant Resonances and Nuclear Matter Compressibility*, **Y. -W. Lui**, **Invited Talk**, IX International Seminar on Electromagnetic Interactions of Nuclei at Low and Medium Energies, Moscow, Russia (September 2000).

*Radiation Effects Facility at Texas A&M University*, **H. Clark**, Nuclear and Space Radiation Effects Conference, Reno, Nevada (July 2000).

*Sensitivity of the Isoscalar Giant Dipole Resonance to Optical Potentials*, **H. Clark**, International Conference on Giant Resonances, Osaka, Japan (June 2000).

*Astrophysical S Factors and Asymptotic Normalization Coefficients*, **R. E. Tribble**, **Invited Talk**, NATO Summer Institute, Predeal, Romania (September 2000).

*(Mostly) Nuclear Astrophysics and (a little) Weak Interactions Using Radioactive Beams at TAMU*, **R. E. Tribble**, **Invited Talk**, TRIUMF, Vancouver, B.C. (May 2000).

*Radioactive Beams at Texas A&M University*, **R. E. Tribble**, **Invited Talk**, RNB2000, Divonne, France (April 2000).

*Antiquarks in Nucleons and Nuclei*, **C. A. Gagliardi**, Kent State University, Kent, OH (March 2001).

*The  ${}^7\text{Be}(p,0){}^8\text{B}$  Reaction and the Solar Neutrino Question*, **C. A. Gagliardi**, Kent State University, Kent, OH (March 2001).

*Asymptotic Normalization Coefficients and Astrophysical Direct Capture Rates*, **C. A. Gagliardi**, **Invited Talk**, Int Symp. Perspectives in Phys. with Radioactive Isotope Beams 2000 (RIB00), Hayama, Japan (November 2000).

*Nuclear Astrophysics with Radioactive Beams*, **C. A. Gagliardi**, **Invited Talk**, 2000 Fall Meeting of the APS Division of Nuclear Physics, Williamsburg, VA (October 2000).

*Asymptotic Normalization Coefficients from Direct Transfer Reactions and Astrophysical S Factors*, **C. A. Gagliardi**, 8<sup>th</sup> Int. Conf. Nucl. Structure (Nuclear Structure 2000), East Lansing, MI (August 2000).

*Asymptotic Normalization Coefficients from Direct Transfer Reactions and Astrophysical S Factors*, **C. A. Gagliardi**, A. Azhari, V. Burjan, F. Carstoiu, J. Cejpek, H. L. Clark, V. Kroha, Y. -W. Lui, A. M. Mukhamedzhanov, S. Piskor, A. Sattarov, X. Tang, L. Trache, R. E. Tribble and J. Vincour, Int. Conf. Nuclei in the Cosmos 2000, Aarhus, Denmark (June 2000).

*Three-Body Approach and Complete Three-Body  $p+H$  Calculations*, **A. M. Mukhamedzhanov, Invited Talk**, University of Arkansas, Fayetteville, AR (November 2000).

*Subthreshold Bound States, Resonances and Radiative Capture  $^{11}C + p \rightarrow ^{12}N + \gamma$* , **A. M. Mukhamedzhanov, Invited Talk**, University of Notre Dame, Notre Dame (October 2000).

*Asymptotic Normalization Coefficients and Astrophysical Radiative Capture Reactions*, **A. M. Mukhamedzhanov, Invited Talk**, A. Azhari, V. Burjan, F. Carstoiu, C.A. Gagliardi, V. Kroha, A. Sattarov, X. Tang, L. Trache, R.E. Tribble, Mainz, University, Mainz, Germany (July 2000).

*Subthreshold Bound States and Resonances: Astrophysical Applications*, **A. M. Mukhamedzhanov, Invited Talk**, R.E. Tribble, Superior Instituto Technio, Lisbon, Portugal (June 2000).

*$^8B$  Astrophysical Factor*, **A. M. Mukhamedzhanov**, C.A. Gagliardi, R.E. Tribble, Nuclei In Cosmos 2000, Aarhus, Denmark (June 2000).

*Nuclear Astrophysics with Radioactive Beams at TAMU*, **L. Trache, Invited Talk**, at the XXXV-th Zakopane International School Physics Zakopane, Poland (September 2000).

*Nuclear Astrophysics with Radioactive Nuclear Beams: Results with an Indirect Method*, **L. Trache, Invited Talk**, Delft University of Technology, Rijksuniversiteit Groningen, The Netherlands (March 2001).

*Asymptotic Normalization Coefficients and the  $S_{17}(0)$* , **A. Azhari, Invited Talk**, University of Washington, Seattle (November 2000).

*Asymptotic Normalization Coefficients and the  $S_{17}(0)$* , **A. Azhari**, C. A. Gagliardi, A. M. Mukhamedzhanov, X. Tang, L. Trache, R. E. Tribble, V. Burjan, V. Kroha, F. Carstoiu, APS meeting, Division of Nuclear Physics, Williamsburg, Virginia (October 2000).

*Asymptotic Normalization Coefficients and the  $S_{17}(0)$* , **A. Azhari**, C. A. Gagliardi, A. M. Mukhamedzhanov, X. Tang, L. Trache, R. E. Tribble, V. Burjan, V. Kroha, F. Carstoiu, APS meeting, Long Beach, CA (April 2000)

*$J/\psi, \psi'$  and Drell-Yan Nuclear Dependence in 800 GeV/c  $p-A$  Collisions*, **M. Vasiliev**, Intersections of Particle and Nuclear Physics, 7<sup>th</sup> Conference CIPANP2000, Quebec City, Canada (May 2000).

*Nuclear Beta Decay and The CKM Problem*, **J. C. Hardy, Invited Talk** at Astrophysics, Neutrinos and Symmetries Town Meeting, Oakland, CA (November 2000).

*Standard-Model Tests with Superallowed Beta Decay: An Important Application of Very Precise Mass Measurement*, **J. C. Hardy, Invited Talk** at APAC 2000, Second Euroconference on Atomic Physics at Accelerators: Mass Spectrometry, Cargese, Corsica, France (September 2000).

*Precise Efficiency Calibration of an HPGe Detector Using the Decay of  $^{180m}HF$* , **J. C. Hardy, Invited Talk**, M. Sanchez-Vega, NATO Advanced Study Institute: Nuclei far from Stability and Astrophysics, Predeal, Romania (August - September 2000).

*Superallowed Beta Decay: Probing The Standard Model with Nuclei Near  $N=Z$* , **J. C. Hardy, Invited Talk** at Pingst 2000, International Workshop on Selected Topics on  $N=Z$  Nuclei, Lund University,

Sweden (June 2000).

*Precise Measurement of the Superaligned Branching Ratio in the Beta-Decay of  $^{22}\text{Mg}$* , **M. Sanchez-Vega**, J. C. Hardy, V. E. Jacob, E. V. Mayes, A. Azhari, C. A. Gagliardi, L. Trache and R. E. Tribble, APS April Meeting, Washington, D.C. (April 2001).

*Possibilities to Describe the Production of Rare Isotopes Close to the Drip Line in the Fermi Energy Domain*, **M. Veselsky**, Oakridge (March 2001).

*Science Society and Scientists: Looking Toward the Future*, **S. J. Yennello**, **Invited Talk**, Sigma XI Annual Meeting, Albuquerque, NM (November 2000).

*Nuclear Reactions: Distillation on a Femtometer, Zeptosecond Scale?* **S. J. Yennello**, **Invited Talk**, Trinity University, (October 2000).

*Isospin Fractionation in Excited Nuclear Systems. Nuclear Structure at the Dawn of a New Century*, **S. J. Yennello**, **Invited Talk**, Bologna, Italy (June 2000).

*Distribution of Isospin during Projectile Fragmentation of Excited Quasiprojectiles from the Reactions of  $^{28}\text{Si} + ^{112,124}\text{Sn}$  at 30 and 50 MeV/nucleon*, **S. J. Yennello**, **Invited Talk**, Catania Relativistic Ion Studies, Acicastello, Italy (May 2000).

*Recent Results on Projectile Multifragmentation*, **M. Veselsky**, International Workshop on Relativistic Nuclear Physics, Stara Lesna, Slovak Republic (June 2000).

*Study of Projectile Multifragmentation in Reactions of  $^{28}\text{Si} + ^{112,124}\text{Sn}$  at Projectile Energies 30 and 50 MeV/u*, **M. Veselsky**, Seventh International Conference on Nucleus-Nucleus Collisions, Strasbourg, France (July 2000).

*Gamma-Ray Multiplicities in Heavy Ion Induced Low Energy Fission*, **G. G. Chubarian**, M. G. Itkis, N. A. Kondratiev, E. M. Kozulin, V. V. Pashkevich, I. V. Pokrovsky, A. Ya. Rusanov, V. S. Salamatin, R. P. Schmitt, International Conference ISOL '01, Oak Ridge, TN (March 2001).

*Study of  $\nabla$ -Clusters of  $^{22}\text{Mg}$  from Resonance Scattering of a Post-Accelerated  $^{18}\text{Ne}$  Radioactive Ion Beam*, M. Guliano, A. Andreyev, C. Angulo, S. Cherubini, **G. Chubarian**, M. J. Garsia Borge, V. Z. Goldberg, M. Gorska, M. Huyse, J. Kolata, M. Lattuda, T. Lönroth, R. Raave, G. Rogachev, M. Rozhkov, S. Romano, C. Spitaleri, A. Tumino, W. Trzaska, P. Van Duppen, International Workshop on Production of Radioactive Ion Beams (PRORIB 2001), Calcutta, India (February 2001)

*Low Energy Fission Studies in Heavy Ion Induced Reactions*, **G. Chubarian**, **Invited Talk**, Tours Symposium on Nuclear Physics IV., Tours, France (September 2000).

*Synthesis of Superheavy Nuclei with Rare and Radioactive Beams*, **G. Chubarian**, International Conference ISOL'01, Oak Ridge TN (March 2001).

*Future Concepts and Perspectives for University Based Research*. **J. B. Natowitz**, **Invited Talk**, DNP Town meeting on Nuclear Structure and Nuclear Astrophysics, Oakland, CA (November, 2000).

*The Use of Coalescence Techniques to Investigate Dynamic Evolution and Equilibration in Heavy Ion Collisions*, **J.B. Natowitz**, National Superconducting Cyclotron Laboratory, East Lansing, MI (October, 2000).

*Coalescence and the Dynamical Evolution of Multi-Fragmenting Systems.* **J. B. Natowitz**, Institute for Nuclear Research, Strasbourg, France (September, 2000).

*The TAMU Cyclotron Institute – An Overview of Research and Development Projects,* **J. B. Natowitz**, National Autonomous University of Mexico, Mexico City, Mexico (June, 2000).

*Probing Nuclear Expansion With Coalescence Models,* **J. B. Natowitz, Invited Talk**, 9<sup>th</sup> International Conference on Nuclear Reaction Mechanisms, Villa Monastero, Varenna, Italy (June, 2000).

*Dynamics, Thermodynamics and Caloric Curves of Nuclei.* **J. B. Natowitz, Invited Talk**, Symposium on the Phases of Nuclear Matter, M. Smoluchowski Institute of Physics of the Jagiellonian University, Krakow, Poland (January, 2000).

*Reaction Mechanism in  $^{64}\text{Zn} + ^{58}\text{Ni}$  at 35-79A MeV with Antisymmetrized Molecular Dynamics Model,* **R. Wada**, Gordon Research Conference Nuclear Chemistry, New London, New Hampshire (June 2000).

*Spectrometers at RHIC,* **K. Hagel et. al.**, 16<sup>th</sup> International Conference on the Application of Accelerators in Research and Industry, Denton, TX (November 2000).

*Neutron Ion Multidetector for Reaction Oriented Dynamics,* **T. J. Keutgen**, Gordon Conference Nuclear Chemistry 2000, New Hampshire (June 2000).

*First Results from BRAHMS at RHIC,* **M. Murray**, Sewall Hall (October 2000)

*Target-Atom K-Shell Ionization by Binary Encounter Electrons,* **V. Horvat**, Sixteenth International Conference on the Application of Accelerators in Research and Industry (November 2000).

*Target-Atom K-Shell Ionization by Binary Encounter Electrons,* **V. Horvat, Invited Talk**, at Texas Christian University, Fort Worth, TX (September 2000).

*Target-Atom K-Shell Ionization by Binary Encounter Electrons,* **V. Horvat**, Oral presentation at the Joint Spring Meeting of the Texas Sections of American Physical Society, College Station, TX (March 2000).

*Projectile Z-Dependence of Al K-Vacancy Production in 10 MeV/amu Ion-Atom Collisions,* **R. L. Watson, Invited Talk**, V. Horvat, J.M. Blackadar, and K.E. Zaharakis, oral presentation at the 2000 Division of Atomic, Molecular, and Optical Physics Meeting of the American Physical Society, Storrs, CT (June 2000).

*Hot Dense Matter in Heavy Ion Collisions,* **C. M. Ko, Invited Talk**, Xth Jorge Andre Swieca Summer School, Sao Paulo, Brazil (February 2001).

*Charmonium Interactions in Hadronic Matter,* **C. M. Ko, Invited Talk**, International Workshop on Relativistic Aspects of Nuclear Physics, Tabatinga, Brazil (October 2000).

*Flow of Strange Particles and Medium Effects in Relativistic Heavy Ion Collisions,* **C. M. Ko, Invited Talk**, International Conference on Strangeness in Quark Matter, Berkeley (July 2000).

*Multi-phase Transport Model for Heavy Ion Collisions at RHIC,* **Z. Lin**, Fifteenth International

Conference on Ultra-Relativistic Nucleus-Nucleus Collisions (QM2001), SUNY-Stony Brook and Brookhaven National Laboratory (January 2001).

*A Multi-Phase Transport Model at RHIC Energies*, **Z. Lin**, RHIC 2000: A Workshop on Theory and Phenomenology of RHIC, Brookhaven National Laboratory (August 2000).

*Effective Hadronic Lagrangian for Charm*, **Z. Lin**, 5<sup>th</sup> International Conference on Strangeness in Quark Matter, Berkeley, CA (July 2000).

*$J/\psi$  Enhancement a la Thews et al: an Upper Limit and Problems*, **Z. Lin**, Summer Program in Nuclear Theory, Lawrence Berkeley National Laboratory, Berkeley, CA (September 2000).

*Isoscalar Giant Dipole Resonances*, **S. Shlomo**, **Invited Talk**, Variable Energy Cyclotron Center, Calcutta, India (December 2000).

*Alpha Excitation of The Isoscalar Giant Resonances in Nuclei and the Nuclear Matter Incompressibility Coefficient*, **S. Shlomo**, **Invited Talk**, Institute of Physics, Bhubaneswar, India (December 2000).

*Excitation of Compression Modes of Nuclei and The Nuclear Matter Incompressibility Coefficient*, **S. Shlomo**, **Invited Talk**, Rensselaer Polytech. Inst., Troy, NY (December 2000).

*Self-Consistent Calculation of Strength Function of Giant Resonances*, **S. Shlomo**, **Invited Talk**, Ben-Gurion University, Beer-Sheva, Israel (January 2001).

*Microscopic Calculation of Excitation Cross Section of Giant Resonances*, **S. Shlomo**, **Invited Talk**, Ben-Gurion University, Beer-Sheva, Israel (January 2001).

*Microscopic Analysis of Excitation of Nuclear Isoscalar Giant Resonances by Alpha Scattering*, **S. Shlomo**, **Invited Talk**, APS/DNP Meeting, Long Beach, CA (April 2000).

*Microscopic Calculation of Excitation of Isoscalar Giant Resonances by Inelastic Alpha Scattering*, **S. Shlomo**, **Invited Talk**, RIKEN Eminent Scientist Colloquium, RIKEN, Wako-shi, Japan (July 2000).

*Nuclear Matter Incompressibility Coefficient and Inelastic Alpha Particle Excitation of Isoscalar Giant Monopole and Dipole Resonances*, **S. Shlomo**, **Invited Talk**, Kobe University, Japan (July 2000).

*Microscopic Analysis of Excitation of Isoscalar Giant Resonances by Alpha Particles*, **S. Shlomo**, **Invited Talk**, Nuclear Science Center, New Delhi, India (December 2000).

*Compression Modes And The Nuclear Matter Incompressibility Coefficient*, **S. Shlomo**, **Invited Talk**, International Symposium on Nuclear Physics (INSP2K), Bhabha Atomic Energy Centre, Mumbai, India (December, 2000).

*Isoscalar Giant Dipole Resonance Within The Random-Phase Approximation*, **A. I. Sanzhur**, **Invited Talk**, Institute for Nuclear Research, Kiev, Ukraine (December 2000).

*Research and Development at the Texas A&M Cyclotron Institute*, **D. May**, **Invited Talk**, Joint Institute for Nuclear Research, Dubna, Russia (October 2000).