

TALKS PRESENTED
April 1, 2002 – March 31, 2003

*Measurement of the Absolute Drell-Yan Dimuon Cross Section in 800 GeV/c pp and pd Collisions, **C. A. Gagliardi, Invited Talk**, (for the FNAL E866/NuSea Collaboration), XVIth Particles and Nuclei International Conference (PANIC02), referred, Osaka, Japan (September 2002).*

*Spin Physics and Ultra-Peripheral Collisions at STAR, **C. A. Gagliardi, Invited Talk**, (for the STAR Collaboration), 18th Lake Louise Winter Institute, Lake Louise, Alberta, Canada (February 2003).*

*Fragment Isospin as a Probe of Heavy-Ion Collisions, **S. J. Yennello**, Gordon Research Conference on Nuclear Chemistry, New London NH (June 2002).*

*Nuclear Reactions: Can they lead to Distillation?, **S. J. Yennello**, University of Maryland (February 2002).*

*What You Don't Know Can Hurt You: The Importance of a Nuclear Education, **S. J. Yennello**, American Chemical Society Meeting, Boston (August 2002).*

*Production and Deexcitation of Isotopically Diverse Nuclear Systems near the Fermi Energy, **S. J. Yennello**, American Chemical Society Meeting, Boston (August 2002).*

*Nuclear Reactions: Distillation on a Femtometer Scale?, **S. J. Yennello**, Union College, Schenectady, NY (January 2003).*

*Nuclear Reactions: Exploring Phase Transitions in Excited Nuclear Material, **S. J. Yennello**, Rensselaer Polytechnic Institute, Troy, NY (January 2003).*

*Multi-detector Arrays for Reaction Studies at $E/A < 200$ MeV, **S. J. Yennello**, RIA detector development workshop (March 2003).*

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

*WECAN Encourage Women to Advance in Physics, **S. J. Yennello**, Keynote talk for the Committee on the Status of Women in Physics, Philadelphia (April 2003).*

*Science Society and Scientists: Looking Toward the Future, **S. J. Yennello**, Keynote talk for Sigma Xi, University of Denver (April 2003).*

Separator systems for deep inelastic scattering with RIBs at RIA, **G. A. Souliotis**, Workshop on the Experimental Equipment for RIA, Oak Ridge, TN (March 2003).

Asymptotic Normalization Coefficients in Nuclear Astrophysics, **Akram Mukhamedzhanov, Invited Talk**, Catania National Lab, Catania, Italy (April 2002).

ANC and CNO Cycle Reactions $^{11}\text{C}(p,\gamma)^{12}\text{N}$, $^{13}\text{C}(p,\gamma)^{14}\text{N}$ and $^{14}\text{N}(p,\gamma)^{15}\text{O}$, **Akram Mukhamedzhanov, Invited Talk**, Catania National Lab, Catania, Italy (April 2002).

Astrophysical Factors **Akram Mukhamedzhanov, Invited Talk**, Catania National Lab, Catania, Italy (April 2002).

Three-body Coulomb Asymptotic Wave Function and Post-decay Coulomb, Acceleration Effects in the Coulomb Breakup Reactions, **Akram Mukhamedzhanov, Invited Talk**, Catania National Lab, Catania, Italy (April 2002).

Astrophysical Factors, **Akram Mukhamedzhanov, Invited Talk**, Instituto Superior Tecnico, Lisbon, Portugal (April 2002).

Low-energy Behavior of Direct Capture Astrophysical Factors, **Akram Mukhamedzhanov, Invited Talk**, University of Surrey, Guilford, UK (September 2002).

Asymptotic 3-body Coulomb Scattering Wave Function, **Akram Mukhamedzhanov, Invited Talk**, University of Surrey, Guilford, UK (September 2002).

Asymptotic Three-body Coulomb Scattering Wave Function and Final-state Interaction in Breakup Reactions, **Akram Mukhamedzhanov, Invited Talk**, University of Lisbon, Portugal (September 2002).

Astrophysical Factors, **Akram Mukhamedzhanov, Invited Talk**, Institut fuer Physik, Mainz Universitat, Mainz, Germany (September 2002).

Astrophysical S Factors for CNO Reactions $^{11}\text{C}(p,\gamma)^{12}\text{N}$ and $^{14}\text{N}(p,\gamma)^{15}\text{O}$ from Asymptotic normalization coefficients, **Akram Mukhamedzhanov**, APS DNP meeting, East Lansing, Michigan (October 2002).

Final State Three-body Coulomb Effects in the $^{208}\text{Pb}(^8\text{B}, ^7\text{Be}p)^{208}\text{Pb}$ Coulomb Breakup Reaction, **Akram Mukhamedzhanov**, APS DNP meeting, East Lansing, Michigan (October 2002).

*Asymptotic normalization coefficient for ${}^3\text{He} + {}^4\text{He} \rightarrow {}^7\text{Be}$ from the ${}^3\text{He}({}^6\text{Li}, d){}^7\text{Be}$ transfer reaction, **Akram Mukhamedzhanov**, PAC meeting, Catania National Lab, Catania, Italy (October 2002).*

*Determination of the S_{17} and S_{18} Astrophysical Factors from Transfer Reactions and from the Breakup of ${}^8\text{B}$ and ${}^9\text{C}$ at Intermediate Energies, **L. Trache, Invited Talk**, GANIL/LPC Caen, France (May 2002).*

*Determination of the S_{17} and S_{18} Astrophysical Factors from Transfer Reactions and the Breakup of ${}^8\text{B}$ and ${}^9\text{C}$ at Intermediate Energies, **L. Trache, Invited Talk**, HRIBF Workshop on Transfer Reactions, Oak Ridge, TN (June 2002).*

*Determination of the S_{18} Astrophysical Factor from the Breakup of ${}^9\text{C}$ at Intermediate Energies, **L. Trache, F. Carstoiu, A. M. Mukhamedzhanov and R. E. Tribble**, talk presented at the 2002 Fall Meeting of the Nuclear Physics Divisions of APS, East Lansing, MI (October 2002).*

*Experience and Lessons Learned with MARS, **L. Trache**, presented at the Workshop on the Experimental Equipment for RIA, Oak Ridge, TN (March 2003).*

*Target K-vacancy Production by Fast Heavy Ions in the Molecular Orbital Regime, **V. Horvat, Z. Smit, and R. L. Watson**, Seventeenth International Conference on the Application of Accelerators in Research and Industry, Denton, Texas (November 2002).*

*Systematics of Electron Capture and Loss by 2-6 MeV/u Xe Ions, **R. L. Watson, V. Horvat, Y. Peng, and R. E. Olson**, Seventeenth International Conference on the Application of Accelerators in Research and Industry, Denton, Texas (November 2002).*

*Projectile and Target Ionization in MeV/u Collisions of Xe-Ions with N_2 , **R. E. Olson, R. L. Watson, V. Horvat, and K. E. Zaharakis**, Seventeenth International Conference on the Application of Accelerators in Research and Industry, Denton, Texas (November 2002).*

*Indirect Ways to Measure Stellar Reaction Rates, **R. E. Tribble**, Institute for Nuclear Theory, University of Washington, Seattle (June 2002).*

*New Results for ${}^8\text{B}(p, \gamma){}^9\text{C}$, ${}^{11}\text{C}(p, \gamma){}^{12}\text{N}$, ${}^{13}\text{C}(p, \gamma){}^{14}\text{N}$, and ${}^{14}\text{N}(p, \gamma){}^{15}\text{O}$ at Stellar Energies Nuclei in the Cosmos, **R. E. Tribble**, Fujikyū, Japan (July 2002).*

*Capture Gamma Reaction Rates at Stellar Energies by the Asymptotic Normalization Coefficient Method, **R. E. Tribble**, Capture Gamma Spectroscopy 11 (CGS11), Prague, Czech Republic (September 2002).*

Radioactive Beams with MARS: Applications in Nuclear Astrophysics and Weak Interactions, **R. E. Tribble**, BIG DRAGON Workshop, TRIUMF, Vancouver, BC (July 2002).

Stellar Capture Rates from Measurements of Asymptotic Normalization Coefficients, **R. E. Tribble**, Workshop for future facilities at the LNS, Catania, Italy, (March 2003).

Tracing Charmonium Evolution at RHIC, *International Workshop on Charm Production from Threshold via SPS to RHIC and LHC*, **Che-Ming Ko, Invited Talk**, Trento, Italy (June 2002).

Predictions from AMPT, **Che-Ming Ko, Invited Talk**, INT/RHIC Winter Workshop on First Two Years of RHIC: Theory versus Experiments, Seattle, Washington (December 2002).

Searching for the Quark-Gluon Plasma at RHIC, **Che-Ming Ko, Invited Talk**, Seminar at University of Kentucky, Lexington, Kentucky (September 2002).

Intermediate Mass Fragments and Isospin Equilibration, **D. V. Shetty**, A. Keksis, E. Martin, A. Ruangma, G. A. Souliotis, M. Veselsky, E. M. Winchester, S. J. Yennello, R. Alfaro, J. Cibor, M. Cinausero, Y. El. Masri, D. Fabris, E. Fioretto, K. Hagel, T. Keutgen, M. Lunardon, Y. Ma, Z. Majka, A. Makeev, A. Martinez-Davalos, A. Menchaca-Rocha, M. Murray, J. B. Natowitz, G. Nebbia, L. Qin, G. Prete, V. Rizzi, P. Smith, P. Staszal, G. Viesti, R. Wada, and J. Wang, 2002 Fall meeting of the APS Division of Nuclear Physics, Michigan, U.S.A. (October 2002).

Isospin Dependence of Intermediate Mass Fragments in ^{124}Sn , $^{124}\text{Xe} + ^{124}\text{Sn}$, ^{112}Sn , **D. V. Shetty**, A. Keksis, E. Martin, A. Ruangma, G. A. Souliotis, M. Veselsky, E. M. Winchester, S. J. Yennello, R. Alfaro, J. Cibor, M. Cinausero, Y. El. Masri, D. Fabris, E. Fioretto, K. Hagel, T. Keutgen, M. Lunardon, Y. Ma, Z. Majka, A. Makeev, A. Martinez-Davalos, A. Menchaca-Rocha, M. Murray, J. B. Natowitz, G. Nebbia, L. Qin, G. Prete, V. Rizzi, P. Smith, P. Staszal, G. Viesti, R. Wada, and J. Wang, 2003 Spring meeting of the APS Division of Nuclear Physics, Philadelphia, U.S.A. (April 2002).

Self Consistent HF-RPA and the Spurious Isoscalar Giant Dipole Resonance, **S. Shlomo, Invited Talk**, Workshop on Continuum Aspects of The Nuclear Shell Model, The European Center for Theoretical Studies in Nuclear Physics and Related Areas (ECT*), Trento, Italy (June 2002).

Isoscalar Giant Monopole and Dipole Resonances and the Nuclear Matter Incompressibility Coefficient, **S. Shlomo and B. K. Agrawal, Invited Talk**, Nuclear Physics in Astrophysics, 17th International Nuclear Physics Divisional Conference of The EPS (NPDC-17), ATOMKI, Debrecen, Hungary, (September - October 2002).

HF-RPA Theory for Giant Resonances and the Nuclear Matter Incompressibility Coefficient, **S. Shlomo, Invited Talk**, International Symposium on Frontiers of Collective Motion (CM2002), University of Aizu, Aizu, Japan (November 2002).

Current Status of the Nuclear Matter Incompressibility Coefficient as Deduced from Data on Compression Modes, **S. Shlomo and B. K. Agrawal, Invited Talk**, International Symposium on Physics of Unstable Nuclei (ISPUN02), Halong Bay, Veitnam (November 2002).

Self-Consistent Hartree-Fock Based Random Phase Approximation and the Spurious State Mixing, **S. Shlomo, Invited Talk**, RCNP, Osaka University, Japan (November 2002).

Superallowed Beta Decays, **J. C. Hardy, Invited Talk**, Workshop on Low Energy Precision Electroweak Measurements, LEPEN2002, Vancouver, Canada (April 2002).

Superallowed Nuclear Beta Decay and CKM Unitarity: Current Status and Future Prospects, **J. C. Hardy, Invited Talk**, Quark Mixing – CKM Unitarity, Heidelberg, Germany (September 2002).

Delimiting the Standard Model with Superallowed Nuclear Beta Decay, **J. C. Hardy, Invited Colloquium**, GSI, Darmstadt, Germany (November 2002).

Delimiting the Standard Model with Superallowed Nuclear Beta Decay, **J. C. Hardy, Invited Colloquium**, University of Jyvaskyla, Finland (November 2002).

Precise Half-life Measurement of the of Beta-Decays of ^{34}Cl and ^{34}Ar , **V. E. Jacob**, E. Mayes, J. C. Hardy, R. G. Neislon, M. Sanchez-Vega, A. Azhari, C. A. Gagliardi, L. Trache and R. E. Tribble, 2003 Spring Meeting of the APS Division of Nuclear Physics, Philadelphia, U.S.A. (April 2003).