

TALKS PRESENTED

April 1, 2010 – March 31, 2011

Testing CVC and CKM unitarity via superallowed nuclear beta decay, J.C. Hardy and I.S. Towner, **J.C. Hardy, Invited talk**, LX International Conference on Nuclear Physics “Nucleus 2010,” St Petersburg, Russia (July 2010).

Are beta-decay half-lives affected by external conditions? **J.C. Hardy, Invited talk**, 21st International Conference on the Application of Accelerators in Research and Industry “CAARI 2010”, Fort Worth, Texas (August 2010).

V_{ud} from nuclear decays, I.S. Towner and J.C. Hardy, **I.S. Towner, Invited talk**, 6th International Workshop on the CKM Unitarity Triangle, CKM2010, Warwick, United Kingdom (September 2010).

Precise Superallowed β -decay Measurements (the cases of ^{26}Si , and ^{34}Ar), V.E. Iacob, J.C. Hardy, A. Banu, L. Chen, V.V. Golovko, J. Goodwin, V. Horvat, N. Nica, H.I. Park, L. Trache and R.E. Tribble, **V.E. Iacob, Invited talk**, Carpathian Summer School of Physics 2010: exotic nuclei and nuclear/particle astrophysics (III), Sinaia, Romania (June 2010).

Further test of internal-conversion with a measurement in ^{197}Pt , **N. Nica**, Third Workshop for Radioactive Decay Data Evaluators at LMRI-CIEMAT, Madrid, Spain (June 2010).

β -decay of ^{23}Al and nova nucleosynthesis, **A. Saastamoinen**, L. Trache, A. Banu, M. A. Bentley, T. Davinson, J. C. Hardy, V. E. Iacob, D. G. Jenkins, A. Jokinen, M. McCleskey, B. Roeder, E. Simmons, G. Tabacaru, R. E. Tribble, P. J. Woods, and J. Äystö, Carpathian Summer School of Physics 2010: exotic nuclei and nuclear/particle astrophysics (III), Sinaia, Romania (June 2010).

Further test of internal-conversion with a measurement in ^{119}Sn , **N. Nica**, Nuclear Data Week at Santa Fe, Santa Fe, New Mexico, (November 2010).

Precise half-life measurement of ^{46}V , **H.I. Park**, J.C. Hardy, V.E. Iacob, L. Chen, J. Goodwin, N. Nica, E. Simmons, L. Trache and R.E. Tribble, APS Meeting, Santa Fe, New Mexico (November 2010).

Do radioactive half-lives depend on the earth-sun distance? **J. Goodwin**, J.C. Hardy, V.E. Iacob and V.V. Golovko, APS Meeting, Santa Fe, New Mexico (November 2010).

Current Topics in Nuclear Astrophysics, **R.E. Tribble, Invited Plenary Talk**, XLIX International Winter Meeting on Nuclear Physics, Bormio, Italy (January, 2011).

Development of New Techniques to Determine Neutron-induced Reaction Rates, **R.E. Tribble, Invited Talk**, 2011 Stewardship Science Academic (SSAA) Symposium, Washington, D.C. (February 2011).

Astrophysical reaction rates that are important for ^{18}F and ^{22}Na in stellar explosions, **R.E. Tribble, Invited Talk**, Astronomy with Radioactivities VII, Phillip Island, Victoria, Australia (March 2011).

Perspectives on the 2007 Long Range Plan for U.S. Nuclear Science, **R.E. Tribble, Invited Presentation**, National Research Council committee to assess the status of the U.S. nuclear physics program (May 2010).

Low Energy Tests of the Electroweak Standard Model, **R.E. Tribble**, **Invited Talk**, Symposium on Nucleon Structure and Electroweak Precision Tests: Past and Future, University of Illinois (May 2010).

Asymptotic Normalization Coefficients: an Indirect Method for Nuclear Astrophysics, **R.E. Tribble**, **Invited Talk**, Carpathian Summer School, Sinaia, Romani (June 2010).

Science and Technology to Strengthen National Competitiveness, **R.E. Tribble**, **Invited Talk**, Carpathian Summer School, Sinaia, Romania (June 2010).

Connections Between Stellar Evolution and Nuclear Physics, **R.E. Tribble**, Colloquium, Texas A&M Commerce, Commerce, Texas (September 2010).

Connections Between Stellar Evolution and Nuclear Physics, **R.E. Tribble**, Colloquium, Ohio University, Athens, Ohio (October 2010).

Exploring the Proton Spin with STAR, **C.A. Gagliardi**, **Colloquium**, Physics Dept., University of Houston, Houston, Texas (March 2011).

Exploring the Proton Spin with STAR, **C.A. Gagliardi**, **Colloquium**, Physics Dept., Yale University, New Haven, Connecticut (February 2011).

Gluon Polarization Measurements with STAR, **C.A. Gagliardi**, **Invited Talk** (for the STAR Collaboration), 2nd Summer Prog. Nucl. Spin Physics, Brookhaven, New York (July 2010).

Decay Spectroscopy for H-burning Reactions in Novae and XRB, **L. Trache**, **Invited Talk**, CEA, Service Physique Nucleaire, Saclay, France (June 2010).

Nuclear Reactions with Rare Isotope Beams – Experiment, **L. Trache**, **Invited Lecture**, 23rd Carpathian Summer School of Physics, Sinaia, Romania (June 2010).

Decay Spectroscopy for Nuclear Astrophysics. H-burning reactions in Novae and XRB Studied with β - and β -delayed Proton-decay, **L. Trache**, **Invited Lecture**, the Pan-American Study Institute PASI2010, Joao Pessoa, Brazil (August 2010).

ANCs from Nuclear Breakup for Nuclear Astrophysics, **L. Trache**, the SAMURAI International Workshop 2011, RIKEN Nishina Center for Accelerator Based Science, Wako-shi, Japan (March 2011).

The TECSA Commissioning Run, **B.T. Roeder**, APS DNP Meeting, Santa Fe, New Mexico (November 2010).

Simulations for the Samurai-Si Silicon Detectors, **B.T. Roeder**, the SAMURAI International Workshop 2011, RIKEN Nishina Center for Accelerator Based Science, Wako-shi, Japan (March 2011).

Mysteries of GMR Strengths in $A \sim 90$ Region, **Krishichavan**, D.H. Youngblood, Y.-W. Lui, and J. Button, APS DNP Meeting, Santa Fe, New Mexico (November 2010).

Precision β -decay Studies Using Neutral Atom Traps, **D. Melconian**, **Invited Talk**, International Conference on Nuclear Physics, Saint Petersburg, Russia (July 2010).

The β^+ Decay of ^{37}K as a Multi-faceted Probe of Fundamental Physics, **D. Melconian**, **Invited Talk**, the 2nd International Ulaanbaatar Conference on Nuclear Physics and Applications, Ulaanbaatar, Mongolia (July 2010).

Experimental Status of V_{ud} and Near-Term Future Prospects, **D. Melconian**, **Invited Talk**, 6th International Workshop on the CKM Unitarity Triangle, Warwick, United Kingdom (September 2010).

Correlation Measurements in Nuclear β Decays, **D. Melconian**, **Invited Talk**, Violations of discrete Symmetries in Atoms and Nuclei, Trento, Italy (November 2010).

A new Research Program for Medical Radioisotope Production at the Texas A&M University, **A. A. Alharbi**, 240th ACS meeting, Boston, Massachusetts (August 2011).

Gluon polarization and jet production at STAR, **Pibero Djawotho**, Seminar, Department of Physics and Astronomy, Stony Brook University, Stony Brook, New York (February 2011).

π^0 -Charged Particle Correlations at $2.5 < \eta < 4.0$ from $p+p$ Collisions at $s = 200 \text{ GeV}$, **J.L. Drachenberg** (for the STAR Collaboration), 2010 APS DNP Meeting, Santa Fe, New Mexico (November 2010).

New Trigger Logic for the Forward Meson Spectrometer, **J.C. Martinez** (for the STAR Collaboration), 2010 APS DNP Meeting, Santa Fe, New Mexico (November 2010).

Gluon Polarization and Jet Production at STAR, **P. Djawotho** (for the STAR Collaboration), 19th International Spin Physics Symposium, Juelich, Germany (September 2010).

Upsilon Production in STAR, **P. Djawotho**, **Invited Talk** (for the STAR Collaboration), International Workshop on Heavy Quarkonium, Fermilab, Batavia, Illinois (May 2010).

Gamma-jet Correlation and Parton Energy Loss in QCD Medium, **Ahmed Hamed**, The Lake Louise Winter Institute 2010, Alberta, Canada (February 2011).

Azimuthal Distributions of High- p_T γ and π^0 with Respect to the Reaction Plane, **Ahmed Hamed**, Hot Quarks 2010 Workshop, La-Londe-les-Maures, Cote d'Azur, France (June 2010).

Azimuthal Correlations of Direct γ and π^0 with Charged hadrons at STAR, **Ahmed Hamed**, 2010 RHIC/AGS Annual User's Meeting, Brookhaven National Laboratory, Upton, New York (June 2010).

Experimental Review of High- p_T Phenomena at Mid-Rapidity at RHIC, **Ahmed Hamed**, Workshop on Critical Examination of RHIC Paradigms, University of Texas, Austin, Texas (April 2010).

Upsilon Production and Upsilon-Hadron Correlations, **Matthew Cervantes**, 2011 Winter Workshop on Nuclear Dynamics, Winter Park, Colorado (February 2011).

Clustered Low Density Nuclear Matter in Near Fermi Energy Collisions, **J.B. Natowitz**, **Invited Talk**, 2nd Workshop on State of the Art in Nuclear Cluster Physics, MAY 25-28, 2010 University of Libre Brussels, Brussels, Belgium (May 2010).

Experimental Investigations of Clustering in Low Density Nuclear Matter, **J.B. Natowitz**, **Invited Talk**, Carpathian Summer School of Physics Conference, Sinaia, Romania (June 2010).

Clustering in Low Density Nuclear Matter, **J.B. Natowitz**, **Invited Talk**, 241st ACS Meeting, Seaborg Award Symposium, Anaheim, California (March 2011).

Strangelets – Status Quo, **Katarzyna Schmidt**, Department of Chemistry, Texas A&M University, College Station, Texas (February 2011).

Isotopic Effects in Nuclear Reactions and the Symmetry Energy at Sub-saturation Densities, **S.J. Yennello**, **Invited Talk**, International Workshop on Nuclear Symmetry Energy at Medium Energies (ASY-EOS 2010), Noto, Italy (May 2010).

Investigation of the Symmetry Energy from the Transverse Collective Flow of Intermediate Mass Fragments, **S.J. Yennello**, **Invited Talk**, International Nuclear Physics Conference, Vancouver, Canada (July 2010).

Investigation of the Symmetry Energy from Measurements of Transverse Collective Flow, **S.J. Yennello**, **Invited Talk**, International Symposium on Nuclear Symmetry Energy (NuSYM10), RIKEN, Wako, Japan (July 2010).

Investigating the Symmetry Energy of Nuclear Matter with Heavy-ion Reactions, **S.J. Yennello**, **Invited Talk**, XXXIV Symposium on Nuclear Physics, Cocoyoc, Morelos, Mexico (January 2011).

Investigating the Symmetry Energy of the Nuclear Equation of State, **S.J. Yennello**, **Invited Talk**, 241st ACS Meeting, Anaheim, California (March 2011).

How Cutting Edge Science Can Prepare a Diverse Technical Workforce for the Future, **S.J. Yennello**, **Invited Talk**, 241st ACS Meeting, Anaheim, California (March 2011).

Le Chatelier's Principle Meets the Extra Dimensions of M-theory, **S.J. Yennello**, **Invited Talk**, 241st ACS Meeting, Anaheim, California (March 2011).

Elucidating the Symmetry Energy of Nuclear Matter with Heavy-ion Reactions, **S.J. Yennello**, **Invited Talk**, 2010 APS DNP Meeting, Santa Fe, New Mexico (November 2010).

Student Career Panel, **S.J. Yennello**, 241st ACS Meeting, Anaheim, California (March 2011).

Fragment Flows and Cluster, **Z. Kohley**, 2nd International Symposium on Nuclear Symmetry Energy, Northampton, Massachusetts (June, 2010).

Fragment Flows and Midrapidity Emission, **Z. Kohley**, Gordon Research Conference (June 2010).

Fragment Flows in the Fermi Energy Regime and Near-Barrier Fusion with Radioactive Ion Beams, **Z. Kohley**, National Superconducting Cyclotron Laboratory, Michigan State University, East Lansing, Michigan (April 2010).

Transverse Collective Flow of Light Charged Particles and Intermediate Mass Fragments in the Fermi Energy Regime, **Z. Kohley**, Oak Ridge National Laboratory, Oak Ridge, Tennessee (May 2010).

Observation of Critical Behavior from Nuclear Fragment Yield Ratios, **R. Tripathi**, A. Bonasera, S. Wuenschel, L. W. May, Z. Kohley, G. A. Souliotis, S. Galanopoulos, K. Hagel, D. V. Shetty, K. Huseman, S. N. Soisson, B. C. Stein, and S. J. Yennello, International Nuclear Physics Conference, Vancouver, Canada (July 2010).

Isoscaling, SMM and the Symmetry Energy: Connecting the Dots, **Paola Marini**, International Workshop on Nuclear Symmetry Energy at Medium Energies (ASY-EOS 2010), Noto, Italy (May 2010).

Isoscaling, SMM and the Symmetry Energy: Connecting the Dots, **Paola Marini**, Exotic Nuclei and Nuclear/Particle Astrophysics (III): From Nuclei to Stars - Carpathian Summer School of Physics, Sinaia, Romania (June 2010).

Constraining the Symmetry Term in the Nuclear Equation of State at Sub-Saturation Densities and Finite Temperatures, **Paola Marini**, ACS Meeting, Anaheim, California (March 2011).

Dissociation of CO Molecular Ions Produced in Collisions with 2.5 MeV/u Xe³⁴⁺, **V. Horvat**, 41st Annual Meeting of the APS Division of Atomic, Molecular and Optical Physics, Houston Texas (May 2010).

Heavy Element Chemistry at Texas A&M University, **C.M. Folden III**, 241st American Chemical Society National Meeting, Anaheim, California (March 2011).

New Gas Stopper for Heavy Element Chemistry Research at the Texas A&M Cyclotron Institute, **M. C. Alfonso**, 241st American Chemical Society National Meeting, Anaheim, California (March 2011).

Future Heavy Element Plans at Texas A&M University, **C. M. Folden III**, **Invited Talk**, Workshop on Future Directions in Heavy Element Science, Berkeley, California, (December 2010).

Master's-Level Certificate Program in Nuclear Forensics at Texas A&M University, **C. M. Folden III**, 240th American Chemical Society National Meeting, Boston, Massachusetts (August 2010).

Development of a Gas Stopping Cell for Heavy Element Chemistry Research at the Texas A&M Cyclotron Institute, **M. C. Alfonso**, 240th American Chemical Society National Meeting, Boston, Massachusetts, (August 2010).

Strings, Jets and Quark Coalescence in Transport Models, **C.M. Ko**, **Invited talk**, International Workshop on Critical Examination of RHIC Paradigms, Austin, Texas (April 2010).

Overview of Relativistic Heavy Ion Collisions, **C.M. Ko**, **Invited talk**, International Workshop on Exotics in Heavy Ion Collisions, Kyoto, Japan (May 2010).

Exotic Hadrons from Heavy Ion Collisions, **C.M. Ko**, **Invited talk**, International Mini-Symposium on Exotics in Heavy Ion Collisions, Kyoto, Japan (May 2010).

Charmonium Production and Elliptic Flow in Relativistic Heavy Ion Collisions, **C.M. Ko**, **Invited talk**, International Workshop on Hot and Cold Baryonic Matter, Budapest, Hungary (August 2010).

Identified Hadrons of Intermediate and High Transverse Momenta in Relativistic Heavy Ion Collisions, **C.M. Ko**, **Invited talk**, International Workshop on Interplay between Soft and Hard Interactions in Particle Production at Ultra-Relativistic Energies, Catania, Italy (September 2010).

Triangular Flow in Relativistic Heavy Ion Collisions, **C.M. Ko**, **Invited talk**, International Workshop on In-Medium Effects in Hadronic and Partonic Systems, Obergurgl, Austria (February 2011).

Particle production in heavy ion collisions, **C.M. Ko, Colloquium**, Institute for Theoretical Physics, University of Frankfurt, Frankfurt, Germany (October 2010).

Probing the high density matter in heavy ion collisions, **C.M. Ko, Colloquium**, Department of Physics and Astronomy, Texas A&M University at Commerce, Commerce, Texas (March 2011).

Astrophysical Factors for $^{15}\text{N}(p,\gamma)^{16}\text{O}$ and $^4\text{He}(d,\gamma)^6\text{Li}$ - Lessons from Recent Experiments by Notre Dame-LUNA and GSI, **A.M. Mukhamedzhanov, Invited Talk**, Lawrence Livermore National Laboratory, Livermore, California (February 2011).

The Combined Method for Transfer Reactions, **A.M. Mukhamedzhanov, Invited Talk**, ECT* Workshop on Reactions and Nucleon Properties in Rare Isotopes, Trento, Italy (April 2010).

Comparison of the Direct and Indirect Techniques for Some CNO Cycle Reactions, **A.M. Mukhamedzhanov, Invited Talk**, ATOMKI, Debrecen, Hungary (May 2010).

Interaction of Mini-black Holes with Nucleons, **A.M. Mukhamedzhanov, Invited Talk**, Surrey University, Guilford, United Kingdom (June 2010).

Unitary Correlations in Nuclear Reaction Theory: Separation of Nuclear Reactions and Spectroscopic Factors, **A.M. Mukhamedzhanov, Invited Talk**, ATOMKI, Debrecen, Hungary (September 2010).

Unitary Correlations in Nuclear Reaction Theory: Separation of Nuclear Reactions and Spectroscopic Factors, **A.M. Mukhamedzhanov, Invited Talk**, ECT* Workshop on Limits of existence of Light Nuclei, Trento, Italy (October 2010).

ANC for $^7\text{Be} \rightarrow ^3\text{He} + \alpha$ from Elastic Scattering Phase Shift and Astrophysical Factor for $^3\text{He} + \alpha \rightarrow ^7\text{Be} + \gamma$, **A.M. Mukhamedzhanov, Invited Talk**, Workshop on $^3\text{He} + \alpha \rightarrow ^7\text{Be} + \gamma$ astrophysical factor, ATOMKI, Debrecen, Hungary (November 2010).

Freeze-out Properties of Hot Nuclear Matter Created in Heavy-Ion Collisions, **S. Shlomo, Invited Talk**, The 3rd International Conference on Current Problems in Nuclear Physics and Atomic Energy (NPAE-Kyiv2010), Kiev, Ukraine (June 2010).

Temperature and Density Dependence of Properties of Nuclear matter Deduced from Heavy-Ion Collisions, **S. Shlomo, Invited Talk**, Capathian Summer School of Physics 2010 (CSSP10), Sinaia, Romania (June 2010).

Quark Recombination in Heavy Ion Collisions, **R.J. Fries, Invited Talk**, Workshop on RHIC Paradigms, Austin, Texas (April 2010).

Quark Recombination in Heavy Ion Collisions, **R.J. Fries, Invited Talk**, JET Collaboration Meeting, Berkeley, California (June 2010).

Jet Chemistry and Contributions to EM Probes, **R.J. Fries, Invited Talk**, INT Workshop on Quantifying Properties of Hot QCD Matter, Institute for Nuclear Theory, University of Washington, Seattle, Washington (July 2010).

Event-by-Event Jet Quenching and Fourier Moments, **R.J. Fries**, **Invited Talk**, 4th International Conference on Hard and Electromagnetic Probes of High Energy Nuclear Collisions (Hard Probes 2010), Eilat, Israel (October 2010).

Quark Recombination and Quark Scaling – Still Puzzling?, **R.J. Fries**, **Invited Talk**, International Workshop on From Strong Fields to Colorful Matter, Asheville, North Carolina (October 2010).

Probing Quark Gluon Matter, **R.J. Fries**, **Invited Talk**, RBRC Review Meeting, Brookhaven National Laboratory, Upton, New York (October 2010).

Event-by-Event Jet Quenching and Fourier Moments, **R.J. Fries**, **Invited Talk**, APS Division of Nuclear Physics Meeting (DNP 2010), Santa Fe, New Mexico (November 2010).

Some Challenges and Opportunities for Hard Probes, **R.J. Fries**, **Invited Seminar**, McGill University, Montreal, Quebec, Canada (November 2010).

Behavior of Early Time Gluon Fields in High Energy Nuclear Collisions, **G. Chen**, APS Division of Nuclear Physics Meeting (DNP 2010), Santa Fe, New Mexico (November 2010).

Quark Equilibrium Recombination and Elliptic Flow Scaling, **M. He**, APS Division of Nuclear Physics Meeting (DNP 2010), Santa Fe, New Mexico (November 2010).

Toward a Complete Description of Heavy-Flavor Transport in Medium, **M. He**, International Workshop on Heavy Quark Production in Heavy-Ion Collisions, Purdue University, West Lafayette, Indiana, (January 2011).

Quale Energia per il Futuro?, **A. Bonasera**, Presentation of the book at International Book Fair, Turin, Italy (May 2010).

Probing the Nuclear Equation of State, **A. Bonasera**, Oak Ridge National Laboratory, Oak Ridge, Tennessee (February 2011).

Signals of Critical Behavior of the Finite Nuclei, **A. Bonasera**, 241st ACS Meeting, Anaheim, California (March 2011).

Energy for the Future? **A. Bonasera**, **Invited Talk**, Saturday Morning Physics, Texas A&M University, College Station, Texas (March 2011).

Update on Potential Models, **F. Riek**, **Invited Talk**, International Workshop on Heavy Quarkonium 2010 (QWG10), Fermilab, Batavia, Illinois (May 2010).

Heavy Quark/onium in Medium and in Heavy-Ion Collisions, **R. Rapp**, **Invited Talk**, EMMI Workshop on Quarkonium and Deconfined Matter in the LHC Era, Martina Franca, Italy (June 2010).

In-Medium Vector Mesons, Dileptons and Chiral Restoration, **R. Rapp**, **Invited Plenary Talk**, International Workshop on Chiral Symmetry in Hadrons and Nuclei (Chiral 2010), Valencia, Spain (June 2010).

Heavy Quark/onium in Hot Nuclear Matter, **R. Rapp**, **Invited Talk**, International program on Quantifying the Properties of Hot QCD Matter, Seattle, Washington (July 2010).

Electromagnetic Probes of the Medium - Status of the Field, **R. Rapp**, **Invited Talk**, International program on Quantifying the Properties of Hot QCD Matter, Seattle, Washington (July 2010).

Dileptons at RHIC: Theoretical Considerations, **R. Rapp**, **Invited Talk**, International Workshop on Electromagnetic Probes of Strongly Interacting Matter, ECT*, Trento, Italy (September 2010).

Theory of Heavy Flavor in the Quark-Gluon Plasma, **R. Rapp**, **Invited Plenary Talk**, International Conference on Physics and Astrophysics of QGP (ICPAQGP 2010), Goa, India (December 2010).

Heavy-Quark Diffusions in QGP, **M. He**, **Invited Talk**, Int. Workshop on Heavy-Quark Production in Heavy-Ion Collisions, Purdue Univ., West Lafayette, Indiana (January 2011).

Electromagnetic Spectral Functions and the Quark-Hadron Transition, **R. Rapp**, **Invited Talk**, STAR Di-Electron Focus Meeting, Lawrence Berkeley National Laboratory, Berkeley, California (March 2011).

Heavy-Quark Probes of the Quark-Gluon Plasma, **R. Rapp**, **Invited Seminar**, Physics Division, Argonne National Laboratory, Argonne Illinois (April 2010).

Charmonium Production in Heavy-Ion Collisions, **X. Zhao**, **Invited seminar**, Lawrence Berkeley National Laboratory, Berkeley, California (June 2010).

Charmonium Production in Heavy-Ion Collisions, **X. Zhao**, **Invited seminar**, Iowa State University, Ames, Iowa (June 2010).

Spektrale Analysis von QCD Materie, **R. Rapp**, **Invited colloquium**, Giessen University, Germany (June 2010).

Rho Mesons in Medium at RHIC and JLab, **R. Rapp**, **Invited Seminar**, Jefferson Laboratory, Newport News, Virginia (March 2011).

Quark-Gluon Plasma: Theory and Phenomenology, **R. Rapp**, **Research Lectures** for condensed matter physicists, Texas A&M University, College Station, Texas (March - May 2010).