

TALKS PRESENTED

April 1, 2015 – March 31, 2016

The current evaluation of V_{ud} , **J.C. Hardy**, **Invited talk**, 12th International Conference on the Intersections of Particle and Nuclear Physics, CIPANP 2015, Vail, Colorado (May 2015).

Testing CVC and CKM unitarity via superallowed nuclear beta decay, **J.C. Hardy**, **Invited talk**, 5th International Conference on Proton-emitting Nuclei, Lanzhou, China (July 2015).

Nuclear tests of the standard model: Vector current conservation and CKM unitarity, **J.C. Hardy**, **Colloquium**, Physics Department, Notre Dame University, South Bend, Indiana (November 2015).

Update of internal conversion coefficient measurement: 150.8-keV, E3 transition in ^{111m}Cd , **N. Nica**, **Invited talk**, 21st Technical Meeting of the Nuclear Structure and Decay Data Network, IAEA, Vienna, Austria (April 2015).

Production of isomerically clean xenon samples for CTBTO, **T. Eronen**, International Noble Gas Experiment (INGE2015) Workshop, Austin, Texas (December 2015).

RHIC cold QCD plan: p+A collisions, **C.A. Gagliardi**, **Invited Talk**, Emerging Spin and Transverse Momentum Effects in pp and p+A Collisions, Brookhaven, New York (February 2016).

TMDs and GPDs (and closely related measurements) at RHIC, **C.A. Gagliardi**, **Invited Talk**, From 1D Fragmentation Towards 3D Correlated Fragmentation, Trento, Italy (October 2015).

Glauon polarization in longitudinally polarized pp collisions at STAR, **Z. Chang** (for the STAR Collaboration), **Invited Talk**, 2105 RHIC/AGS Ann. Users' Meet., Brookhaven, New York (June, 2015).

Recent transverse spin results from the STAR experiment at RHIC, **M.M. Mondal** (for the STAR Collaboration), **Invited Talk**, 2105 RHIC/AGS Ann. Users' Meet., Brookhaven, New York (June, 2015).

Measurement of the transverse single spin asymmetries for π^0 and electromagnetic jets at forward rapidities at STAR, **M.M. Mondal** (for the STAR Collaboration), 2015 APS April Meet., Baltimore, Maryland (April 2015).

Energy calibration of the NewSUBARU storage ring by laser Compton-scattering gamma rays and its applications, **Y.-W. Lui**, **Invited Talk**, 3rd International Symposium on Energy Challenges and Mechanics - Towards a Big Picture, Aberdeen, Scotland, United kingdom (July 2015).

Recent giant resonances measurements and its future, **Y.-W. Lui**, **Invited Talk**, Lanzhou, China (September 2015).

What do we learn from the giant monopole resonance measurement at Texas A&M University? **Y.-W. Lui**, **Invited Talk**, Clustering effects of nucleon in nuclei and quarks in multi-quark states, Kavli Institute for Theoretical Physics China at the Chinese Academy of Sciences, Beijing, China (March 2016).

The TITAN facility at TRIUMF: Precision experiments with ion traps, **A.A. Kwiathowski**, ISOLDE PG Seminar, ISOLDE-CERN, Geneva, Switzerland (October 2015).

The TITAN facility at TRIUMF: Precision experiments with ion traps, **A.A. Kwiathowski**, Max-Planck-Institut für Kernphysik, Heidelberg, Germany (October 2015).

Highly charged ions for mass measurements and in-trap decay spectroscopy, **A.A. Kwiathowski**, **Invited Talk**, Colloque GANIL 2015, Anglet, France (October 2015).

Mystery of ^9He and structure of the neutron rich nuclei, ^8He , ^{10}He , ^7H , **V.Z. Goldberg**, **Invited Talk**, X Int. Conf. Nuclear Structure and Dynamics 2015, Portoroz, Slovenia (June 2015).

Study of very neutron rich nuclei through their isobar analogs, **V.Z. Goldberg**, **Invited Talk**, LXV Int. Conf. on Nucleus 2015 - New Horizons in Nuclear Physics, Nuclear Engineering, Femto- and Nanotechnologies, Saint-Petersburg, Russia (June 2015).

Program in the low energy resonance reaction studies, **V.Z. Goldberg**, **Invited Seminar**, Nazarbayev University, Astana, Kazakhstan (August 2015).

New physics in resonance scattering induced by R/A beams, **V.Z. Goldberg**, **Invited Talk**, International Workshop on Rare Isotope Science, Seoul, South Korea (December 2015).

Upgrade of the TAMU MDM-focal plane detector with MicroMegas technology, **A. Spiridon**, Workshop on Active Targets and TPC for Nuclear Physics Experiments, Michigan State University, East Lansing, Michigan (May 2015).

Development of the TexAT detector at Texas A&M University, **E. Uberseder**, Workshop on Active Targets and TPC for Nuclear Physics Experiments, Michigan State University, East Lansing, Michigan (May 2015).

Clustering in ^{10}Be and astrophysical aspects of clusters in oxygen isotopes, **G. Rogachev**, **Invited Talk**, Gordon Research Conference on Nuclear Chemistry, New London, New Hampshire (May 2015).

Structure of ^9He studied in $^8\text{He}+p$ resonance scattering, **E. Uberseder**, Gordon Graduate Students and PostDocs meeting, New London, New Hampshire (May 2015).

Light exotic nuclei studied via resonance scattering, **G. Rogachev**, **Invited Talk**, Canadian Association of Physicists, Edmonton, Canada (June 2015).

Probing the structure of the unbound nuclei ^9He and ^{10}N through proton elastic scattering, **E. Uberseder**, The 12th International Conference on Nucleus Nucleus Collisions, Catania, Italy (June 2015).

Constraining the key alpha-capture astrophysical reaction rates using the sub-Coulomb alpha-transfer reactions, **G. Rogachev**, **Invited Talk**, The 12th International Conference on Nucleus Nucleus Collisions, Catania, Italy (June 2015).

Unbound states of light nuclei and nuclear clustering, **G.V. Rogachev**, 2015 Low Energy Community Meeting, ReAX Workshop, Michigan State University, East Lansing, Michigan (August 2015).

Structure of ^{10}N via $^9\text{C}+p$ resonance scattering, **J. Hooker**, 2015 APS Division of Nuclear Physics meeting, Santa Fe, New Mexico (October 2015).

Measurement of the nuclear polarization in optically-pumped ^{37}K : Progress towards a measurement of the β -asymmetry parameter, **B. Fenker**, 6th International Symposium Symmetries in Subatomic Physics

(SSP 2015), Victoria, British Columbia, Canada (June 2015).

Nuclear physics with trapped atoms and ions, **D. Melconian**, “Pizza and Profs” presentation for the Texas A&M University Honors Program, Texas A&M University, College Station, Texas (April 2015).

Exploring clustering in near Fermi energy collisions, **J.B. Natowitz**, **Invited Talk**, Custipen Workshop, Shanghai, China (December 2015).

Giuseppe Viesti - An appreciation, **J.B. Natowitz**, **Invited Talk**, 11th Latin American Symposium, Medellin, Colombia (December 2015).

Chemical equilibrium in low density nuclear matter, **J.B. Natowitz**, **Invited Talk**, NUSYM15, Krakow, Poland (June 2015).

Exploring clustering in alpha conjugate nuclei using the thick target inverse kinematic technique for multiple alpha emission, **M. Barbui**, 2015 APS Division of Nuclear Physics Meeting, Santa Fe, New Mexico (October 2015).

Study of ^{12}C excited states decaying into three alpha particles using the thick target inverse kinematic technique, **M. Barbui**, International Conference on Nucleus-Nucleus Collisions (NN2015), Catania, Italy (June 2015).

Studying nuclear reactions in plasma conditions, **M. Barbui**, 8th European Summer School on Experimental Nuclear Astrophysics, Santa Tecla, CT, Italy (September 2015).

Single event effect microchip testing at the Texas A&M University Cyclotron Institute, **S.J. Yennello**, **Invited Talk**, 2015 APS Division of Nuclear Physics meeting, Santa Fe, New Mexico (October 2015).

Nuclear reactions, **S.J. Yennello**, **Invited Talk**, Exotic Beam Summer School, Florida State University, Tallahassee, Florida (August 2015).

Stable & Rare Beams at the Texas A&M University Cyclotron Institute, **S.J. Yennello**, **Invited Talk**, SHE Conf. Symposium on SUPER HEAVY NUCLEI, Texas A&M University, College Station, Texas (March 2015).

Constraints on the asymmetric equation-of-state from heavy-ion collisions, **S.J. Yennello**, **Invited Talk**, 12th International Conference on Nucleus-Nucleus Collisions (NN2015), Catania, Italy (June 2015).

Isospin equilibration in heavy-ion collisions, **S.J. Yennello**, **Invited Talk**, 5th International Symposium on Nuclear Symmetry Energy NuSYM15, Kraków, Poland (June 2016).

From ‘fixing women’ to ‘institutional transformation’: An ADVANCE case study, **S.J. Yennello**, **Invited Talk**, Meeting of American Association of Physics Teachers (AAPT), Baltimore, Maryland (July 2015).

Stable and radioactive ion beams at the Texas A&M University Cyclotron Institute, **S.J. Yennello**, **Invited Talk**, LECM, East Lansing, Michigan (September 2015).

Using heavy-ion collisions to elucidate the asymmetric equation-of-state, **S.J. Yennello**, **Invited Talk**, XXI International School on Nuclear Physics and Applications & International Symposium on Exotic Nuclei (2015), Varna, Bulgaria (September 2015).

There's data...and then there's data: Telling your institution's story, **S.J. Yennello**, **Invited Talk**, ADVANCE/GSE Program Workshop, Baltimore, Maryland (June 2015).

Connections between nuclear reactions and astrophysics, **S.J. Yennello**, **Invited Talk**, Exotic Beam Summer School, Florida State University, Tallahassee, Florida (August 2015).

Producing exotic nuclei, **S.J. Yennello**, **Invited Talk**, Meeting of American Association of Physics Teachers (AAPT), New Orleans, Louisiana (January 2016).

How to observe equilibration in a femto-scale system on a zepto-second timescale, **A.B. McIntosh**, Pacificchem: International Chemical Congress of Pacific Basin Societies, Honolulu, Hawaii (December 2015).

New prospects for characterizing the asymmetry dependence of the nuclear caloric curve, **A.B. McIntosh**, 2015 APS Division of Nuclear Physics Meeting, Santa Fe, New Mexico (October 2015).

Measurements of proton-proton correlations with the upgraded FAUST array (FAUSTUPS), **L. Heilborn**, 2015 APS Division of Nuclear Physics Meeting, Santa Fe, New Mexico (October 2015).

Using particle ratios to explore the limits of the thermodynamic model of heavy ion collisions, **M. Youngs**, 2015 APS Division of Nuclear Physics Meeting, Santa Fe, New Mexico (October 2015).

Rate of N-Z equilibration in a deformed nuclear system, **A. Jedgele**, 2015 APS Division of Nuclear Physics Meeting, Santa Fe, New Mexico (October 2015).

How much cooler would it be with some more neutrons? **A.B. McIntosh**, Nucleus-Nucleus 2015, Catania, Sicily, Italy (June 2015).

Heavy ion collisions and tests of the supernova equation of state, **K. Hagel**, 2015 APS Division of Nuclear Physics Meeting, Santa Fe, New Mexico (October 2015).

From femtonova to supernova: Heavy ion collisions and the supernova equation of state, **K. Hagel**, 12th International Conference on Nucleus-Nucleus Collisions (NN2015), Catania, Italy (June 2015).

Search for high energy alpha particles in the reactions of 7.5 AMeV ¹⁹⁷Au with ²³²Th, **S. Wuenschel**, J.B. Natowitz, K. Hagel, M. Barbui, J. Gauthier, X. Cao, C. Ma, R. Wada, S. Kowalski, K. Schmidt, Z. Majka, Z. Sosin, and A. Wieloch, 2015 APS Division of Nuclear Physics Meeting, Santa Fe, New Mexico (October 2015).

Heavy element research at Texas A&M University, **C.M. Folden III**, **Invited Talk**, Symposium on “The Expanding Periodic Table: New Discoveries and Chemistry of the Heaviest Elements” at the 2015 International Chemical Congress of Pacific Basin Societies (Pacificchem 2015), Waikiki, Hawaii, (December 2015).

Chemistry and nuclear reactions at the bottom of the periodic table, **C.M. Folden III**, **Invited Talk**, Texas A&M University Cyclotron Institute Colloquium, College Station, Texas (September 2015).

Opportunities for heavy element science with ReA, **C.M. Folden III**, **Invited Talk**, ReA3-12 Upgrade Workshop, East Lansing, Michigan (August 2015).

Production of heavy and superheavy elements using projectiles with $Z \geq 20$, **C.M. Folden III**, 250th American Chemical Society National Meeting, Boston, Massachusetts (August 2015).

Study of chemical behaviour of Tl and In as light homologues of element 113, **E.E. Tereshatov**, 250th American Chemical Society National Meeting, Boston, Massachusetts (August 2015).

The interplay of chemistry and physics at the bottom of the periodic table, **C.M. Folden III**, **Invited Talk**, Lawrence Berkeley National Laboratory Nuclear Physics Forum, Berkeley, California (July 2015).

Nuclear forensics analysis of separated plutonium of foreign fuel cycles (NFASP) project: Assessment of unique trace elements and isotope ratios in separated plutonium from low burnup nuclear fuel **C.M. Folden III**, (with Sunil S. Chirayath), DNDO ARI Grantees Program Review Conference, Dallas, Texas (July 2015).

Heavy element research at Texas A&M University, **C.M. Folden III**, 5th International Conference on the Chemistry and Physics of the Transactinide Elements (TAN 15), Urabandai, Fukushima, Japan (May 2015).

Prospects for the discovery of the next new element and new methods for liquid-phase chemistry of heavy and superheavy elements, **C.M. Folden III**, **Invited Talk**, University of Kentucky Department of Chemistry Colloquium, Lexington, Kentucky (April 2015).

Production of near-spherical nuclei in hot fusion reactions, **C.M. Folden III**, **Invited Talk**, Super Heavy Nuclei Symposium 2015, College Station, Texas (April 2015).

Direct measurements of radiative capture reactions with DRAGON, **G. Christian**, **Invited Talk**, 2015 APS Division of Nuclear Physics Meeting, Santa Fe, New Mexico (October 2015).

A novel method for determining the mean-field directly from the single particle matter density, **S. Shlomo**, **Invited Talk**, 4th International Conference on Mathematical Modeling in Physical Science (IC-Msquare4), Mykonos Island, Greece (June 2015).

A novel method for determining the mean-field directly from the single particle matter density: Application to the measured charge density difference between the isotones $^{206}\text{Pb} - ^{205}\text{Tl}$, **S. Shlomo**, **Invited Talk**, LXV International Conference on Nuclear Physics “NUCLEUS- 2015” New Horizons in Nuclear Physics, Nuclear Engineering, Femto-and Nanotechnologies, Saint Petersburg, Russia (June 2015).

Determining a modern energy density functional for nuclei and the status of the equation of state of nuclear matter, **S. Shlomo**, **Invited Talk**, Aristotle University of Thessaloniki, Thessaloniki, Greece (May 2015).

Determining a modern energy density functional for nuclei and the status of the equation of state of nuclear matter, **S. Shlomo**, **Invited Talk**, National and Kapodistrian University of Athens, Athens Greece (June 2015).

Unitarity of the particle-hole dispersive optical model, **M.L. Gorelik**, S. Shlomo, B.A. Tulupov, and M. H. Urin, LXV International Conference on Nuclear Physics “NUCLEUS-2015” New Horizons in Nuclear Physics, Nuclear Engineering, Femto- and Nanotechnologies, Saint Petersburg, Russia (June 2015).

The ^{132}Sn giant dipole resonance as a constraint on properties of nuclear matter, **B. Roach**, G. Bonasera and S. Shlomo, 2015 Fall Meeting of the APS Division of Nuclear Physics, Santa Fe, New Mexico (October 2015).

Primordial astrophysical reaction $^4\text{He}(d,\gamma)^6\text{Li}$ and the ^6Li isotope puzzle, **A.M. Mukhamedzhanov**, **Invited Talk**, ATOMKI, Debrecen, Hungary (April 2015).

Indirect methods in nuclear astrophysics, **A.M. Mukhamedzhanov**, **Invited Talk**, International Conference Nucleus-Nucleus Collisions, Catania, Italy (June 2015).

Equation of state and pairing properties of neutron matter from chiral EFT, **J. Holt**, **Invited Talk**, Pairing Phenomena from Neutron Stars to Cold Gases, Physics by the Falls 2016, University of Buffalo, Buffalo, New York (March 2016).

Using lasers for nuclear physics: Measuring cross-sections in (non) equilibrium plasmas, **A. Bonasera**, **Invited Talk**, Padova, Italy (May 2015).

Bose Einstein condensation, fermionic quenching and Efimov states from HIC, **A. Bonasera**, **Invited Talk**, Rostock, Germany (August 2015).

Using lasers for nuclear physics: Measuring cross-sections in (non) equilibrium plasmas, **A. Bonasera**, **Invited Talk**, Shanghai Institute of Applied Physics (SINAP) and Shanghai Institute of Optics and Fine Mechanics (SIOM), Shanghai, China (January 2016).

Bose Einstein condensation, fermionic quenching and Efimov states from HIC, **A. Bonasera**, **Invited Talk**, Shanghai Institute of Applied Physics (SINAP), Shanghai, China (January 2016).

Heavy-flavor interactions in medium, **R. Rapp**, **Invited Talk**, 6th Workshop of the APS Topical Group on Hadronic Physics, Baltimore, Maryland (April 2015).

Interactions of heavy flavor in medium, **R. Rapp**, **Invited Talk**, the Kavli Institute for Theoretical Physics China (KITPC) Program on “sQGP and Extreme QCD”, Chinese Academy of Science, Beijing, China (May 2015).

Thermal EM radiation in heavy-ion collisions, **R. Rapp**, **Invited Talk**, Symposium on “Jet and Electromagnetic Tomography of Dense Matter”, McGill University, Montreal, Canada (June 2015).

Dileptons and chiral symmetry restoration, **R. Rapp**, 7th International Conference on Hard and Electromagnetic Probes of High-Energy Nuclear Collisions (“Hard Probes 215”), McGill University, Montreal, Canada (June 2015).

Recent developments for heavy flavor in medium, **R. Rapp**, **Invited Opening Talk**, Workshop on “Selected Topics in Heavy-Flavor Production in High-Energy Collisions”, Tsinghua University, Beijing, China (September 2015).

QCD matter in heavy-ion collisions, **R. Rapp**, **Invited Inaugural Talk**, Center for Nuclear Theory QGP-Meet 2015 Workshop, Variable Energy Cyclotron Centre, Kolkata, India (November, 2015).

Selected discussion points and opportunities from CNT QGP-meet 2015, **R. Rapp**, **Invited Summary Talk**, Center for Nuclear Theory QGP-Meet 2015 Workshop, Variable Energy Cyclotron Centre, Kolkata, India (November 2015).

Heavy flavor in medium, **R. Rapp**, **Invited Talk**, Int. Workshop XLIV on Gross Properties of Nuclei and Nuclear Excitations on “WCD Matter: Dense and Hot”, Hirschegg, Austria (January 2016).

From dileptons in heavy-ion collisions to chiral restoration at high temperature, **R. Rapp**, **Invited Nuclear/Particle Physics Seminar**, Tsinghua University, Beijing, China (May 2015).

Spectral analysis of primordial QCD matter, **R. Rapp**, Tsinghua University, Beijing, China (May 2015).

Search for chiral symmetry restoration in QCD matter, **R. Rapp**, **Invited Nuclear/Particle Physics Seminar**, Nanjing University, Nanjing, China (September 2015).

Phenomena of the strong nuclear force, or: Why the vacuum is not empty, **R. Rapp**, **Physics Colloquium**, Nanjing University of Science and Technology, Nanjing, China (September 2015).

Search for chiral symmetry restoration in QCD matter, **R. Rapp**, Institute for Theoretical Physics, Frankfurt University, Germany (October 2015).

Spectral analysis of primordial QCD matter, **R. Rapp**, Physics colloquium, Technical University, Darmstadt, Germany (October 2015).

Sequential regeneration of charmonia in heavy-ion collisions, **X. Du**, Nuclear/Particle Physics Seminar, Tsinghua University, Beijing, China (January 2016).

Direct photon + hadron correlations to study parton energy loss with the STAR experiment, **Nihar R. Sahoo** (for the STAR Collaboration), Quark Matter 2015 (XXV International Conference on Ultrarelativistic Nucleus-Nucleus Collisions), Kobe, Japan (September 2015).

Quarkonium formation time in heavy ion collisions, **C.M. Ko**, **Invited Talk**, Jet Symposium, Montreal, Canada (June 2015).

(Anti)nuclei production and flow in ultra-relativistic heavy-ion collisions, **C.M. Ko**, **Invited Talk**, EMMI Workshop on Anti-Matter, Hyper-Matter and Exotic Production at the LHC, CERN, Geneva, Switzerland (July 2015).

Light nuclei production and flow in relativistic heavy ion collisions, **C.M. Ko**, **Invited Talk**, Heavy Ion Conference, Shanghai, China (August 2015).

Jet fragmentation in a hot medium, **C.M. Ko**, **Invited Talk**, 11th International Workshop on QCD Phase Transition and Relativistic Heavy Ion Physics, Harbin, China (August 2015).

Quarkonium formation time in heavy ion collisions, **C.M. Ko**, **Invited Talk**, 2nd International Workshop on Heavy Flavor Productions in High Energy Collisions, Beijing, China (September 2015).

Overview on coalescence model: Theoretical developments and applications, **C.M. Ko**, **Invited Talk**, International Workshop on Exotic Hadrons from High Energy Collisions", Kyoto, Japan (March 2016).

Charmonia production in heavy ion collisions, **C.M. Ko**, **Invited Seminar**, Physics Department, Yonsei University, Seoul, Korea (August 20, 2015).

Jet fragmentation via shower parton recombination in vacuum and in medium, **C.M. Ko**, **Invited Seminar**, Physics Department, Yonsei University, Seoul, Korea (August 2015).

The Quark recombination model and applications to high energy collisions, **R.J. Fries**, **Invited Seminar**, Rice University, Houston, Texas (April 2015).

Quark recombination and jet shower hadronization, **R.J. Fries**, **Invited Talk**, Symposium on Jet and Electromagnetic Tomography of Dense Matter (JET Symposium), McGill University, Montreal, Quebec, Canada (June 2015).

Jet hadronization in vacuum and in the medium, **R.J. Fries**, 7th International Conference on Hard and Electromagnetic Probes of High-Energy Nuclear Collisions (Hard Probes 2015), McGill University, Montreal, Quebec, Canada (June 2015).

Jet hadronization in vacuum and in the medium, **R.J. Fries**, XXVth International Conference on Ultrarelativistic Nucleus-Nucleus Collisions (Quark Matter 2015), Kobe, Japan (September 2015).

The (3+1)-D structure of nuclear collisions, **R.J. Fries**, RBRC Workshop on Longitudinal Dynamics, Brookhaven National Laboratory, Upton, New York (January 2016).