

TALKS PRESENTED
April 1, 2024 – March 31, 2025

2025

*Measurement of photon-jet correlations in $p+p$ and central Au+Au collisions at $\sqrt{s_{NN}} = 200$ GeV by STAR, **J. Tyler, Talk**, American Physical Society Global Physics Conference, Anaheim, California (March 2025).*

*Modeling key reactions of light nuclei, **A. Bonasera, Invited Talk**, Key Reaction in Nuclear Astrophysics, ECT* , Trento, Italy (February 2025).*

*How neutrons shape our universe and our civilization, **A. McIntosh, Talk**, Saturday Morning Physics, Texas A&M University, College Station, Texas (February 2025).*

*From Strosacker to Shipping Radionuclides: Producing At-211 for novel medical applications, **L. McIntosh, Invited Talk**, Hillsdale College, Hillsdale, Michigan (January 2025).*

*Clustering in atomic nuclei, **G. Rogachev, Colloquium**, GSI, Darmstadt, Germany (January 2025).*

2024

*Nuclear astrophysics with lasers, **A. Bonasera**, IQSE AMO QO seminar series, Physics Department, Texas A&M University, College Station, Texas (December 2024).*

*Progress on the Extraction of ^{58}Fe 's Photon Strength Function with the DAPPER Array Using the Forward Method, **M. Sorensen, Talk**, APS DNP, Waikoloa, Hawaii (November 2024).*

*At-211 Production and Research at Texas A&M Cyclotron Institute, **A. Pilot, Talk**, Hippo Hullabaloo, College Station, Texas (November 2024).*

*Constraining neutron-induced fission cross sections using surrogate reactions with radioactive beams, **A. Lestone, Talk** LANL Fission FIESTA, Los Alamos National Laboratory, Los Alamos, New Mexico (November 2024).*

*Producing energy from fusion, **A. Bonasera**, Society for fusion science&engineering, Texas A&M University, College Station, Texas (November 2024).*

*Search for Toroidal Nuclear Resonances in the Cluster Disassembly of ^{28}Si , **A. McIntosh, Talk**, Workshop on Particle Correlations and Femtoscopy, Toulouse, France (November 2024).*

*Nuclear Forensics of Americium-based Samples Using Intra-Elemental Isotopic Ratios, **I. Haynes, Talk**, Consortium for Nuclear Forensics 2024 Workshop, University of Florida, Gainesville, Florida (October 2024).*

*Nuclear Forensics Research at Texas A&M University, **C. Folden III, Invited Talk**, Consortium for Nuclear Forensics 2024 Annual Workshop, University of Florida, Gainesville, Florida (October 2024).*

Searching For ^{174}Yb and ^{178}Hf 0^+ states with two-neutron transfer reactions, **J. Santucci**, **Talk**, DNP 2024, Boston, Massachusetts (October 2024).

Photoneutron Calibration Standard: extracting cross sections of GDR response in the heavy nucleus ^{169}Tm , **B Wellons**, **Talk**, DNP 2024, Boston, Massachusetts (October 2024).

Experiments with the AGGIE Gas-Filled Separator at Texas A&M University, **C. Folden III**, **Invited Talk**, 2024 Fall Meeting of the APS Division of Nuclear Physics, Boston, Massachusetts (October 2024).

Measuring the $^{39}\text{K}(p,\gamma)^{40}\text{Ca}$ reaction with DRAGON, **P. Adsley**, **Invited Talk**, APS Division of Nuclear Physics, Boston, Massachusetts (October 2024).

Direct low-energy measurement of the $^{25}\text{Mg}(a,n)$ reaction via neutron spectroscopy, **Shahina**, **Talk**, APS Division of Nuclear Physics, Boston, Massachusetts (October 2024).

New Visualization Technique of High-Spin Level Schemes: Double Helix Level Scheme of ^{171}Yb , **N. Nica**, **Invited Talk**, Division of Nuclear Physics, Boston, Massachusetts (October 2024).

Development of The Detector Array for Photons, Protons, and Exotic Residues, **A. McIntosh**, **Talk**, Division of Nuclear Physics, Boston, Massachusetts (October 2024).

Probing the origins of the chemical elements, **P. Adsley**, **Invited Talk**, Division of Nuclear Physics, Boston, Massachusetts (October 2024).

Remembering Birger Back, Robert Vandenbosch and Victor Viola: pioneers in nuclear fission - Part 2, **S. J. Yennello**, **Invited Talk**, Division of Nuclear Physics, Boston, Massachusetts (October 2024).

TAMU EVALUATION CENTER USNDP Report FY 2024, **N. Nica**, **Invited Talk**, US Nuclear Data Program Annual Meeting 2024, TUNL, Duke University, Durham, North Carolina (October 2024).

Clustering in Nuclei - the present state of the art, **G. Rogachev**, Colloquium, Mississippi State University, Mississippi Starkville, Mississippi (October 2024).

Miscellanea on ENSDF Evaluation: Tools, **N. Nica**, **Talk**, US Nuclear Data Program Annual Meeting 2024, TUNL, Duke University, Durham, North Carolina (October 2024).

Mesosopic Phenomenological Model of Rotational Motion: Double Helix Level Scheme of ^{171}Yb , **N. Nica**, **Talk**, US Nuclear Data Program Annual Meeting 2024, TUNL, Duke University, Durham, North Carolina (October 2024).

Radioisotopes production using lasers: from basic science to applications, **M. Dias Rodrigues**, **Talk**, 4th International Workshop on Proton-Boron Fusion, Frascati, Italy (October 2024).

Medical Isotope Production with Cyclotrons, **S.J. Yennello**, **Invited Talk**, Joint IAEA-USA International School on Peaceful Uses of Nuclear Application: Advancing Human Health, Oak Ridge National Laboratory, Oak Ridge, TN (September 2024).

Indirect experimental approaches to charged particle reactions in astrophysics, **P. Adsley**, **Talk**, NPA IX, TU Dresden, Dresden, Saxony, Germany (September 2024)

Nuclear Data in CENTAUR 2, **A. McIntosh**, **Talk**, CENTAUR Site Review, Texas A&M University, College Station, Texas (September 2024).

Analyzing data acquired during the TexNeut commissioning experiment, **A. Alafa**, **Talk**, CENTAUR Site Review, Texas A&M University, College Station, Texas (September 2024).

Nuclear fusion reactions using lasers, **A. Bonasera**, **Invited Talk**, 37th European Conference on Laser Interaction with Matter (ECLIM 2024), Instituto Superior Técnico, Lisbon, Portugal (September 2024)

Signatures of Short-Range Correlations in Intermediate Energy Heavy Ion Collisions, **K. Hagel**, **Invited Talk**, XIIth International Symposium on Nuclear Symmetry Energy, GANIL, Caen, France (September 2024)

Using ChatGPT to Code in ROOT, Geant4, and More, **A. Lestone**, **Talk**, Brown Bag Luncheon, Cyclotron, College Station, Texas (August 2024).

Functionalized Detectors for Superheavy Element Homolog Chemistry Experiments, **A. Kirkland**, **Talk**, Nucleus-Nucleus 2024, Whistler, Canada (August 2024).

Heavy Element Research at Texas A&M University, **C. Folden III**, **Invited Talk**, 14th International Conference on Nucleus-Nucleus Collisions, Whistler, BC, Canada (August 2024).

Nuclear Forensics of Americium-based Samples Using Intra-Elemental Isotopic Ratios, **I. Haynes**, **Talk**, American Chemical Society Fall 2024 Meetings, 2024-08-21, Denver, Colorado (August 2024).

The ab initio revolution in low-energy nuclear physics, **P. Adsley**, **Invited Talk**, Cyclotron Colloquium, Texas A&M University Cyclotron Institute, College Station, Texas 77843

Search for toroids in excited nuclear materia, **S.J. Yennello**, **Invited Talk**, NUCLEUS NUCLEUS COLLisions, Whistler, Canada (August 2024).

Radiochronometric analysis of a historical ²²⁶Ra pigment sample for nuclear forensics, **J. Garcia**, **Talk**, American Chemical Society Fall 2024 Meetings, 2024-08-21, Denver, Colorado (August 2024)

DAPPER: A high efficiency array for measuring full gamma energy with charged particle coincidence, **A. McIntosh**, **Invited Talk**, Nucleus-Nucleus 2024, Whistler, BC, Canada (August 2024).

The Horizon-broadening Isotope Production Pipeline Opportunities (HIPPO) Program, **L. McIntosh**, **Invited Talk**, HIPPOmoot, Brookhaven National Laboratory, Upton, New York (August 2024).

Racing the Clock to Beat Cancer: ²¹¹At at Texas A&M, **S.J. Yennello**, **Invited Talk**, Low Energy Community Meeting, Knoxville, Tennessee (August 2024).

Update from Texas A&M University, **C. Folden III**, **Invited Talk**, Low-Energy Community Meeting, University of Tennessee, Knoxville, Tennessee (August 2024).

Cross Section Measurements for ¹⁴⁹Tb Production, **A. McIntosh**, **Invited Talk**, TAMU HIPPOcampus, Texas A&M University, College Station, Texas (August 2024).

“Hot Stuff”: Producing At-211 for novel medical applications, **L. McIntosh**, **Invited Talk**, TAMU HIPPOcampus, Texas A&M University, College Station, Texas (August 2024).

Nuclear Data, **A. McIntosh**, **Invited Talk**, CENTAUR Science Advisory Committee Meeting, Lawrence Livermore National Laboratory, Livermore, California (July 2024).

Calculating Multiple-Scattering Corrections by Exploiting MCNP Forced Collisions (My Time at LANL), **A. Alafa**, **Talk**, CENTAUR Science Advisory Committee Meeting, Lawrence Livermore National Laboratory, Livermore, California.

“Hot Stuff”: Producing At- 211 for novel medical applications, **L. McIntosh**, **Invited Talk**, 27th International Conference on the Application of Accelerators in Research and Industry (CAARI) and the 55th Symposium of Northeastern Accelerator Personnel (SNEAP), Fort Worth, Texas (July 2024).

Multi-Nucleon-Transfer and the production of Heavy Elements, **K. Hagel**, **Invited Talk**, Exploring the heavy exotic neutron-rich nuclides via multinucleon transfer reactions, RIKEN, Japan (July 2024).

Nuclear Clusters and Their Role in Nucleosynthesis, **G. Rogachev**, **Invited Talk**, International Nuclear Astrophysics Summer School, Aci Trezza, Sicily, Italy (June 2024).

State of the Art in the Experimental Nuclear Cluster Physics, **G. Rogachev**, **Invited Talk**, Conference on State of the Art in Nuclear Cluster Physics (SOTANCP5), Hvar, Croatia (June 2024).

Getting Astatine to Researchers, **L. McIntosh**, **Invited Talk**, Society of Nuclear Medicine & Medical Imaging, Toronto, Canada (June 2024).

Nuclear Forensics of Americium-based Samples Using Intra-Elemental Isotopic Ratios, **I. Haynes**, **Talk**, DOE University Program Review, Texas A&M University, College Station, Texas (June 2024).

Alpha Decaying Heavy Elements Produced in Multi-Nucleon Transfer Reactions of Heavy Nuclei, **K. Hagel**, **Invited Talk**, FRIB Theory Alliance Topical Program The Path to Superheavy Isotopes, Michigan State University, FRIB, East Lansing, Michigan

Could revisiting the principles of a level scheme bring new insight into high-spin physics? **N. Nica**, **Talk**, 7th International Workshop of the Hellenic Institute of Nuclear Physics on Nuclear Structure, Astrophysics and Reaction Dynamics, University of Ioannina, Ioannina, Greece (June 2024)

Dynamic production of electron-positron pairs in strong fields, **A. Bonasera**, **Invited Talk**, 7th International Workshop of the Hellenic Institute of Nuclear Physics, Ioannina, Greece (May 2024).

Recent Advances in Understanding of Clustering in Atomic Nuclei, **G. Rogachev**, **Invited Talk**, Colloquium at Gumilev University, Gumilev University, Astana, Kazakhstan (May 2024).

Recent Advances in Understanding of Clustering in Atomic Nuclei, **G. Rogachev**, **Invited Talk**, Colloquium at Nazarbaev University, Nazarbaev University, Astana, Kazakhstan (May 2024)

Experimental search for high-spin resonant states in collisions of $^{28}\text{Si} + ^{12}\text{C}$ at 35 MeV/nucleon, using FAUST array, **R. Wada**, **Invited Talk**, International workshop on Multi faces of Eos and Clustering, INFN-Catania, Catania, Italy (May 2024).

Racing the Clock to Cure Cancer, **S.J. Yennello**, **Invited Talk**, University of Oregon, Eugene, Oregon (May 2024).

*Search for toroids in excited nuclear material, **S.J. Yennello**, **Invited Talk**, Hellenic Institute of Nuclear Physics Workshop (HINPw7), Ioannina, Greece (May 2024).*

*DOE Isotope Program Strategic Planning Meeting, **S.J. Yennello**, **Invited Talk**, Germantown, Maryland (April 2024).*

*Nuclear microphysics of neutron stars, core-collapse supernovae, and neutron star mergers, **J. Holt**, **Invited Talk**, Texas A&M Commerce Physics and Astronomy Colloquium, Commerce, Texas (April 2024).*

*Microscopic calculations of neutrino scattering and absorption in warm dense matter, **J. Holt**, **Invited Talk**, N3AS Seminar, College Station, Texas (April 2024).*

*Developing a New Visualization of High-Spin Level Schemes, **N. Nica**, **Invited Seminar**, Horia Hulubei National Institute of Physics and Nuclear Engineering, Bucharest, Romania (April 2024).*

*Data-Based Research Project: How to build a Level Scheme? **N. Nica**, **Talk**, 25th Technical Meeting of the International Network of Nuclear Structure and Decay Data Evaluators , International Atomic Energy Agency, Vienna, Austria (April 2024).*

*TAMU NSDD EVALUATION CENTER Report Oct 2022 - Apr 2024, **N. Nica**, **Invited Talk**, 25th Technical Meeting of the International Network of Nuclear Structure and Decay Data Evaluators, International Atomic Energy Agency, Vienna, Austria (April 2024).*

*Ion Trapping for CRES Events: A GOLIATH Upgrade to the He6-CRES Experiment, **D. McClain**, **Talk**, APS April Meeting 2024: Quarks to Cosmos, Sacramento, California (April 2024).*

*Plateau Correction in High Precision Half-Life Measurements, **V. Jacob**, **Talk**, APS April Meeting, April 3 - 6, 2024, Sacramento, California (April 2024).*

*Generative Modeling of Nucleon-Nucleon Interactions, **J. Holt**, **Invited Talk**, 2024 April APS Meeting, Sacramento (April 2024).*

*Exploring the structure of exotic nuclei and origin of the elements with advanced charged-particle and neutron detectors systems, **G. Rogachey**, **Invited Talk**, Eurica 2024 Nuclear Community Webinar, Schlumberger (SLB, a global multinational oilfield services company) (April 2024).*