

TALKS PRESENTED

April 1, 2020 – March 31, 2021

Preparing DAPPER to measure photon strength functions, **A. Abbott**, CENTAUR Group Meeting, Virtual, Texas (March 2021).

Climate surveys and assessments to achieve your goals, **S.J. Yennello**, **Invited talk**, APS - IDEA, Virtual, United States (February 2021).

Almost medium-free measurement of the Hoyle state direct-decay component with a TPC, **J. Bishop**, Previews of the Future in Low-Energy Experimental Nuclear Physics: A Postdoctoral Seminar Series, Online, College Station, Texas (February, 2021).

Design and testing of YAP:Ce array for DAPPER, **A. Abbott**, 2021 National Nuclear Security Administration (NNSA) Stewardship Science Academic Programs (SSAP) Symposium, Virtual, United States (February 2021).

CENTAUR: Expanded opportunities in a virtual world, **S.J. Yennello**, **Invited talk**, 2021 National Nuclear Security Administration (NNSA) Stewardship Science Academic Programs (SSAP) Symposium, Virtual, United States (February 2021).

Beam rate dependent effects on single crystalline diamond detector, **M. Sorensen**, 2021 National Nuclear Security Administration (NNSA) Stewardship Science Academic Programs (SSAP) Symposium, Virtual, United States (February 2021).

The search for alpha - clustered toroidal nuclei in ^{28}Si , **A. Hannaman**, Fall Meeting of the Division of Nuclear Physics, Virtual, New Orleans, Louisiana (October 2020).

Chiral effective field theory for nuclear matter and neutron stars, **J. Holt**, **Invited talk**, Hadron in Nucleus 2020, Yukawa Institute for Theoretical Physics, Kyoto, Japan (March 2021).

Hot and dense neutron-rich matter in supernovae and neutron star mergers, **J. Holt**, **Invited talk**, Stony Brook University, Stony Brook, New York (November 2020).

Spin and density response functions for hot and dense nuclear matter from chiral nuclear forces, **E. Shin**, DNP Fall Meeting 2020, APS Division of Nuclear Physics, Virtual Meeting, United States (October 2020).

Constraining the nonanalytic terms of the nuclear symmetry energy with chiral nuclear forces, **P. Wen**, 2020 Fall Meeting of the APS Division of Nuclear Physics, United States (November 2020).

Nucleon-nucleus global optical potential from chiral effective field theory, **T. Whitehead**, 2020 Fall Meeting of the APS Division of Nuclear Physics, Virtual Meeting, United States (November 2020).

Modifications to the ^6He -CRES experiment for ion bunching and trapping, **D. McClain**, 2021 National Nuclear Security Administration (NNSA) Stewardship Science Academic Programs (SSAP) Symposium, Virtual, United States (February 2021).

Commissioning the Texas A&M University penning trap via offline mass measurements, **M. Nasser**, 2021 National Nuclear Security Administration (NNSA) Stewardship Science Academic Programs (SSAP) Symposium, Virtual, United States (February 2021).

Nuclear frontiers with active targets, RAON colloquium (virtual), **G. Rogachev**, **Invited talk**, RAON, Daejeon, South Korea (December 2020).

Nuclear frontiers with active targets, **G. Rogachev**, **Invited talk**, FLNR seminar, Flerov Laboratory for Nuclear Reactions, Dubna, Russia (March 2021).

Origin of the elements, **G. Rogachev**, **Invited talk**, Lecture to Woodlands Science Academy students, Woodlands Science Academy, Woodlands, Texas (September 2020).

Texas A&M Cyclotron Institute and CENTAUR as generators of nuclear talent, **S.J. Yennello**, **Invited talk**, WANDA21, Virtual, United States (February 2021).

Toward inclusive excellence in nuclear science, **S.J. Yennello**, **Invited talk**, ChETEC Action Split Period 4 Main Event, Virtual, Croatia (September 2020).

The photon strength function of ^{60}Fe with DAPPER, **M. Sorensen**, Virtual Joint Nuclear and Astrophysics Seminar, Texas A&M, College Station, Texas (January 2021).

Getting involved in undergraduate research, Conference for Undergraduate Women in Physics, **S.J. Yennello**, **Invited talk**, Virtual, United States (January 2021).

Background free measurement of β -delayed protons from ^{27}P for the astrophysical $^{26}\text{Al}(p,\gamma)^{27}\text{Si}$ reaction, **A. Saastamoinen**, Joint Nuclear and Astrophysics Seminar, Physics and Astronomy / Cyclotron Institute, Texas A&M University, College Station, Texas (December 2020).

Texas A&M evaluation center precision internal conversion coefficients measurements follow-up, **N. Nica**, Nuclear Data Week 2020, USNDP Meeting, Dec 1-4, Brookhaven National Laboratory, Upton, New York (December 2020).

Texas A&M evaluation center strategic priorities, **N. Nica**, Nuclear Data Week 2020, USNDP Meeting, Dec 1-4, Brookhaven National Laboratory, Upton, New York (December 2020).

Texas A&M University US nuclear data program Texas A&M evaluation center report 2020, **N. Nica**, Nuclear Data Week 2020, USNDP Meeting, Dec 1-4, Brookhaven National Laboratory, Upton, New York (December 2020).

State of the art experiments with active target detectors developed at Cyclotron Institute, **Y. Koshchiy**, Cyclotron Institute seminar, Cyclotron Institute, Texas A&M University, College Station, Texas (December 2020).

Nuclear chemistry: Fundamental chemistry impacting society, **S.J. Yennello**, **Invited presentation**, College Station High School Science Club, College Station High School, College Station, Texas (November 2020).

Curing cancer from the inside: The promise of targeted alpha therapy, **S.J. Yennello**, **Invited talk**, Distinguished Lecture in Chemistry, UT Dallas, Dallas, Texas (November 2020).

Developing isotope production capabilities with heavy-ion beams at Texas A&M University, **L. McIntosh**, Division of Nuclear Physics of American Physical Society, Virtual, United States (November 2020).

Isolation of ^{211}At from bismuth target in nitric acid media using hydrophobic organic solvents, **A. Vonder Haar**, 2020 Fall Meeting of the APS Division of Nuclear Physics, New Orleans, Louisiana, virtual (October 2020).

Silicon characterization for DAPPER, **A. Abbott**, 2020 Fall Meeting of the APS Division of Nuclear Physics, New Orleans, Louisiana, virtual (October 2020).

Benchmarking an active catcher array for the Study of multinucleon transfer reactions, **A. Hood**, 2020 Fall Meeting of the APS Division of Nuclear Physics, New Orleans, Louisiana, virtual (October 2020).

High-precision half-life measurement of ^{29}P , **P. Shidling**, 2020 Fall Meeting of the APS Division of Nuclear Physics, New Orleans, Louisiana, virtual (October 2020).

Kr+C reactions to explore the asymmetry dependence of the nuclear caloric curve, **A. McIntosh**, 2020 Fall Meeting of the APS Division of Nuclear Physics, New Orleans, Louisiana, virtual (October 2020).

Searching for BSM physics via the precision frontier: β decay experiments using atom and ion traps, **D. Melconian**, **Invited talk**, NSCL/FRIB Virtual Nuclear Science Seminar, MSU/NSCL, East Lansing, Michigan (October 2020).

Gamma ray detection in DAPPER array for $(d,p\gamma)$ reactions, **M. Sorensen**, 2020 Fall Meeting of the APS Division of Nuclear Physics, New Orleans, Louisiana, virtual (October 2020).

Measurement of neutron-induced enhancement of the triple-alpha process with a TPC, **J. Bishop**, Virtual Joint Nuclear and Astrophysics Seminar, Texas A&M University, College Station, Texas (September 2020).

Future neutron detection capabilities at TRIUMF for nuclear astrophysics and structure, **G. Christian**, **Invited talk**, TRIUMF Science Week, TRIUMF (virtual), Vancouver, Canada (August 2020).

Nuclear forensics research at Texas A&M University, **C.M. Folden III**, ACS Fall 2020 Virtual Meeting & Expo, San Francisco, California (August 2020).

Extraction and separation of iridium(IV) and rhodium(III) from hydrochloric acid media by a quaternary ammonium-based hydrophobic eutectic solvent, **V. Zakusilova**, ACS Fall 2020 Virtual Meeting & Expo, San Francisco, California (August 2020).

Studying stellar nucleosynthesis through heavy-ion gated transfer reactions, **G. Christian**, **Invited talk**, Argonne National Laboratory Heavy Ion Discussion, Argonne National Lab (virtual), Lemont, Illinois (August 2020).

DAPPER: Preparations to measure iron 60's photon strength function, **M. Sorensen**, CENTAUR SAC Virtual Meeting, College Station, Texas (August 2020).

Development of DAPPER for measuring ^{60}Fe gamma ray strength function, **A. Abbott**, 2020 CENTAUR SAC Virtual Meeting, Cyclotron Institute, College Station, Texas (August 2020).

*Advancing research in Texas through experiments in medical isotope science, **S.J. Yennello**, **Invited talk**, NIDC At-211 meeting, ORAU, virtual, United States (July 2020).*

*Contemporary nuclear physics, **C.M. Ko**, **Invited talk**, Sichuan University, Chengdu, China (July 2020).*

*Chiral kinetic modeling of vorticity and polarization, **C.M. Ko**, **Invited talk**, Institute of Nuclear Theory Program on Criticality and Chirality in Heavy ion Collisions, Seattle, Washington (virtual) (May 2020).*

*Probing the nuclear symmetry energy with rare isotope beams, **C.M. Ko**, **Invited talk**, C2R2 Seminars, Korea (February 2021).*

*Probing QCD critical point with light nuclei production, **K.J. Sun**, **Invited talk**, The 10th RHIC BES Theory and Experimental Online Seminar (virtual), United States (October 2020).*

*Particle gated transfer reactions: A tool for studying stellar nucleosynthesis, **G. Christian**, **Invited talk**, UK Locodown Seminar Series, U. Liverpool (virtual), Liverpool, United Kingdom (May 2020).*

*Measurements of the $^{16}\text{C} + ^{12}\text{C}$ and $^{16}\text{C} + ^{13}\text{C}$ fusion cross sections with implications for astrophysics, **A. Hood**, APS April Meeting (virtual), Washington D.C., United States (April 2020).*