INSTITUTE COLLOQUIA AND SEMINARS

April 1, 2023 - March 31, 2024

2023

April 5	Professor Alexander Volya, Department of Physics Florida State University Tallahassee, Florida 32306	*Order and Chaos in Mesoscopic Nuclear Physics*
April 27	Dr. Siegfried S. Hecker, Professor of the Practice in Nuclear Engineering and Distinguished Faculty Fellow in the Center for Nuclear Security Science and Policy Initiatives (NSSPI), Texas A&M University, College Station, Texas 77843	*Nuclear Solutions Institute Colloquium: North Korea's Sixty-Year Odyssey to a Nuclear Arsenal*
June 7	Professor Jorge A. Munoz, Jr. Department of Physics, The University of Texas at El Paso (UTEP), El Paso, Texas 79968	*Computational Thinking and Close Mentoring in Nuclear Physics Education and Training*
June 20	Dr. Eric Aboud Critical Engineer and Postdoctoral Researcher, Lawrence Livermore National laboratory, Livermore, California 94550-9234	*Integral Experiments for Nuclear Criticality at Lawrence Livermore National Laboratory*
July 13	Dr. Kiana Setoodehnia, Research Staff Scientist, Duke University/Triangle Universities, Nuclear Laboratory Durham, North Carolina 27708	*Current Status of SECAR: A Recoil Separator for Nuclear Astrophysics Experiments at FRIB*
August 10	Dr. Patrick Steinegger, Assistant Professor of Radiochemistry, Laboratory of Inorganic Chemistry, Department of Chemistry and Applied Biosciences, ETH Zuich, Switzerland	*The chemical characterization of superheavy elements (Z > 103)*
August 15	Dr. Robert Eichler, Joint professorship PSI/UniBern University of Bern, Bern, Switzerland	*Recent and future Swiss radionuclide production for science*

August 31	David Kahl,	*Investigation of Nuclear Reactions with Magnetic Spectrometers*
September 5	Dr. Sylvie Hudan,, Senior Scientist, Indian University, Bloomington, Indiana 47405	*Impact of neutron excess on near-barrier fusion in* $^{16\text{-}20}O + {}^{12}C$
September 11	Michael Story, Ph.D. Vice-Chair, Department of Radiation Oncology, Chief, Division of Molecular Radiation Biology, Director, Pre-clinical Radiation Core Facility, David A. Pistenmaa, M.D., Ph.D. Distinguished Chair in Radiation Oncology, University of Texas, Southwestern Medical Center, Dallas, Texas 75390	*The return of carbon ion radiotherapy to the United States: Will this $233M bet pay off?*
October 10	Dr. George Zimba, Post Doc, Facility for Rare Isotope Beams (FRIB) Michigan State University, East Lansing, Michigan 48824	*Isospin breaking in the upper fp-shell nuclei: In-beam spectroscopy of A = 78 T = 1 nuclei via recoil-double-β and recoil-β tagging methods*
October 12	Mr. Rahul Jain, Graduate Research Assistant Facility for Rare Isotope Beams Michigan State University, East Lansing, Michigan 48824	*Heating and cooling of accreting neutron star crusts*
October 24	Janilee Benitez, Principal Engineering Associate, MARS-D Project Manager ECR Group, 88-Inch Cyclotron, Lawrence Berkeley National Laboratory, Berkeley, California 94720	*Development of Electron Cyclotron Resonance Ion Sources at LBNL's 88-Inch Cyclotron*
October 26	Deepa Thomas, Assistant Professor, The University of Texas at Austin, Austin, Texas 78767	*Exploring QCD in Extreme Conditions*

November 7	Dr. Cheuk-Yin Wong, Distinguished Senior Physicist, Oak Ridge National Laboratory (ORNL), Oak Ridge, Tennessee 37830	*On the question of quark confinement in the QED interaction*
November 14	Professor Dean Lee, Department of Physics, Facility for Rare Isotope Beams (FRIB) Michigan State University, East Lansing, Michigan 48824	*Nuclear Lattice Simulations for Nuclear Structure and Thermodynamics*
November 15	Professor Filomena Nunes, Department of Physics and Astronomy, Facility for Rare Isotope Beams, Michigan State University, East Lansing, Michigan 48824	*BAR: Bayesian Analyses of Reactions*
November 20	Rebecca (Becca) Hoerres, Ph.D. candidate, Department of Chemistry, The University of Missouri, Columbia, Missouri 65211	*Development of [^{99m}Tc]Tc- and [^{186}Re]Re-tricarbonyl metal complexes with TACN-based chelators for radiopharmaceutical applications*
November 21	Dr. Jonathan Morrell, Post-doctoral Research Associate, Los Alamos National Laboratory, Los Alamos, New Mexico 87545	*Understanding Pre-Equilibrium Physics for Isotope Production*

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January 10	Dr. Armand Bahini, Post-doctoral researcher, iThemba laboratory for Accelerator based Sciences (LABS), Somerset West 7129, South Africa	*Study of the isoscalar giant monopole resonance (ISGMR) at iThemba LABS*
January 17	Rajkumar Santra, Visiting Fellow, Variable Energy Cyclotron Center (VECC), India	*Nine things every faculty and staff should know about title IX (and civil rights!) at Texas A&M University*
January 23	S. Shahina, Ph.D. Candidate, University of Notre Dame, Notre Dame, Indiana 46556	*Stellar neutron sources for the s-process nucleosynthesis*

January 31	Tyler Wheeler, Graduate Research Assistant, Facility for Rare Isotope Beams, Michigan State University Laboratory, East Lansing, Michigan 48824	*Measuring the $^{15}O(\alpha, \gamma)^{19}Ne$ Reaction Rate in Type I X-ray Bursts using ^{20}Mg β-decay*
February 6	Xinyi Wang, Graduate Student, Michigan State University, East lansing, Michigan 48824	*Locating the first $p_{1/2}$- state in ^{13}Be*
February 6	James DeBoer, Associate Research Faculty, University of Notre Dame, Notre Dame, Indiana 46556	*Another (α,n) measurement from the University of Notre Dame, the $^{13}C(\alpha,n)^{16}O$ reaction*
February 27	Dr. Paul Ellison, Assistant Professor of Medical Physics, School of Medicine and Public Health, Health Sciences Learning Center, University of Wisconsin, Madison, WI 53705	*Cyclotron production, radiochemical synthesis, and biological evaluation of theranostic radiopharmaceuticals*
February 29	Nathaniel Pogue, Accelerator Physics Group Leader, National Security Engineering Division (NSED) Lawrence Livermore National Lab (LLNL), Livermore, California 94550	*LIAs - The Powerful Accelerators you have never heard of, that are enabling US Science and Security*
March 5	Chloe Hebborn, Assistant Professor, Facility for Rare Isotope Beams, Michigan State University, East Lansing, Michigan 48824	*Ab initio prediction of $\alpha(d,\gamma)^{6}Li$ and impact of the ^{6}Li properties onto α -induced reactions of astrophysical interest*
March 12	Dr. Heshani jayatissa, Postdoctoral Researcher, Los Alamos National laboratory, Los Alamos, New Mexico 87545	*Understanding the nucleosynthesis flow in type-I x-ray bursts using a direct measurement of an α-capture reaction on ^{22}Mg*
March 18	Rebeka Lubna, Facility for Rare Isotope Beams, Michigan State University, East Lansing, Michigan 48824	*Probing the Evolution in Nuclear Structure around N = 20*

March 19	Dr. Gregory Potel, Staff Scientist, Lawrence Livermore National Laboratory, Livermore, California 94550-9234	*The Optical Potential: From Structure to Reactions and Back Again*
March 25	Veronika Mocko, Research Scientist, Los Alamos National Laboratory, Los Alamos, New Mexico 87545	*From R&D to large scale production of a new PET radionuclide Ce-134*
March 27	Jonas Karthein, Massachusetts Institute of Technology Cambridge, Massachusetts 02139	*Unknown Electroweak Nuclear Properties From Single Molecular Ions*