

INVITED TALKS

Giovanna Benzoni (INFN Milan, Italy): *Recent Results from the DESPEC Campaign at GSI*

Jeffery Blackmon (Louisiana State University, USA): *Study of Proton-decaying States Important for Classical Novae Using the Silicon Array for Branching Ratio Experiments*

Michael Block (GSI Darmstadt/Helmholtz Institute Mainz/Johannes Gutenberg University Mainz, Germany): *Studying the Structure of the Heaviest Elements Through Laser Spectroscopy and Mass Spectrometry*

Philippe Di Stefano (Queen's University, Kingston, Canada): *Observation of a Rare Decay of ^{40}K with Implications for Fundamental Physics and Geochronology*

Jacek Dobaczewski (University of York, UK): *Odd Nuclei in Nuclear DFT*

Arseniy Filin (Ruhr University Bochum, Germany): *Precise Calculations of Charge Radii of Light Nuclei*

Ronald Garcia Ruiz (Massachusetts Institute of Technology, USA): *Radioactive Molecules for Nuclear Science*

Ian Guinn (Oak Ridge National Laboratory, USA): *LEGEND's Search for Neutrinoless Double-beta Decay in ^{76}Ge*

Leendert Hayen (LPC Caen, France): *Beyond the Standard Model: Exploring Enigmas with Beta Decay*

Kate Jones (University of Tennessee, USA): *Direct Reactions with Neutron-rich and Neutron-deficient Tin Beams*

Beatriz Jurado (LP2I Bordeaux, France): *Surrogate Reactions in Inverse Kinematics at Heavy-ion Storage Rings*

Ági Koszorús (KU Leuven, Belgium): *Nuclear Structure Studies Using Laser Spectroscopy Techniques at ISOLDE and IGISOL*

Magdalena Kowalska (CERN/University of Geneva, Switzerland): *Polarised Unstable Nuclei: From Nuclear Physics to Life Sciences*

Wojciech Królas (IFJ PAN, Cracow, Poland): *IFMIF-DONES — A New Facility for Material Testing and Nuclear Physics*

Rimantas Lazauskas (IPHC Strasbourg, France): *Stability of the Lightest Neutron-rich Nuclei*

Piotr Magierski (Warsaw University of Technology, Poland): *Pairing Dynamics far from Equilibrium*

Szymon Malinowski (University of Warsaw, Poland): *Nuclear Physics and Climate Science: Carbon and Oxygen Isotopes Allow to Understand Global Warming*

Oscar Naviliat-Cuncic (FRIB — Michigan State University, USA): *Measurements of β -energy Spectra with 4π Calorimetric Techniques*

Witold Nazarewicz (Michigan State University, USA/University of Warsaw, Poland): *Challenges and Prospects in Low-energy Nuclear Theory*

Krzysztof Pachucki (University of Warsaw, Poland): *Testing Fundamental Interactions with the Hyperfine Splitting in Light Atomic Systems*

Janne Pakarinen (University of Jyväskylä, Finland): *Expanding the Reach of Coulomb-excitation Experiments*

Grégory Potel Aguilar (Lawrence Livermore National Laboratory, USA): *Nuclear Josephson-like γ Emission*

Bertis Rasco (Oak Ridge National Laboratory, USA): *Introduction to the β -spectrum Module*

Hideyuki Sakai (RIKEN Nishina Center, Japan): *New SHE $Z = 119$ Search and Related Experiments at RIKEN*

Guy Savard (Argonne National Laboratory/University of Chicago, USA): *Improved Tensor Limits from the $A = 8$ Fundamental Physics Program at ANL*

Ragnar Stroberg (University of Notre Dame, USA): *Some Recent Progress in Ab Initio Nuclear Theory*

Smarajit Triambak (University of the Western Cape, South Africa): *Nuclear Structure Studies Relevant for New Physics Searches with Xenon Detectors*

Dario Vretenar (University of Zagreb, Croatia): *Microscopic Models of Induced Fission Dynamics*

Kathrin Wimmer (GSI Darmstadt, Germany): *Symmetry and Collectivity of Mirror Nuclei*

SEMINARS

Martyna Araszkiewicz (University of Warsaw, Poland): *Study of the Biological Effects in Glioblastoma Cell Lines after Exposure to High LET α Particles Appearing in BNCT Therapy*

Jaime Benito García (University of Padova/INFN Padova, Italy/ Complutense University of Madrid, Spain): *Spectroscopy of Neutron-rich Fe Isotopes Studied in the $^{70}\text{Zn}+^{238}\text{U}$ Reaction*

Konstantin Beyer (Max Planck Institute for Nuclear Physics, Heidelberg, Germany): *Exploring New Solutions to the Fine-structure Anomaly in Heavy Muonic Atoms*

Simone Bottoni (University of Milan/INFN Milan, Italy): *Search for the Gamma Decay of the Narrow Near-threshold Proton Resonance in ^{11}B*

Tomasz Cap (National Centre for Nuclear Research, Warsaw, Poland): *What Are the Chances of Synthesizing Elements 119 and 120?*

Jamie Chadderton (University of Liverpool, UK): *Isomeric Structures in the Heavy Nucleus ^{250}Fm*

Natalia Cieplicka-Oryńczak (IFJ PAN, Cracow, Poland): *Gamma-spectroscopy Studies Around the ^{208}Pb Core: The ^{210}Bi , ^{206}Tl , ^{205}Pb , ^{207}Pb Nuclei Investigated in Neutron Capture Reactions*

Daniel Fernández Ruiz (Institute of the Structure of Matter (IEM-CSIC), Madrid, Spain): *Accurate Characterization of the β decay of ^8B to ^8Be*

Rafael Ferrer-Garcia (KU Leuven, Belgium): *High-resolution Resonance Ionization Spectroscopy of Actinides in a Supersonic Gas Jet*

Paul Garrett (University of Guelph, Canada): *Studies of the $N = 60$ Shape Transition; States in ^{98}Zr and ^{98}Sr Populated via β Decay*

Victor Guadilla (University of Warsaw, Poland): *Isospin Mirror Asymmetry as an Evidence of Proton Halos?*

Arthur Jaries (University of Jyväskylä, Finland): *Recent Mass Measurements of Neutron-rich Rare-earth Nuclides with the JYFLTRAP Double Penning Trap at IGISOL for the Astrophysical r-process*

Erik Asbjørn Mikkelsen Jensen (Aarhus University, Denmark): *Beta-delayed (Multi-)particle Emission from ^{21}Mg Utilising DSSSD Telescopes and HPGe Clovers at IDS*

Yevgen Koshchiy (Texas A&M University, USA): *Experiments with Texas Active Target Detector on Rare Isotope Beams*

Adam Kubiela (University of Warsaw, Poland): *Study of Neutron-deficient Zinc Isotopes — Production, Two-proton Radioactivity and Other Decay Modes*

Magdalena Kuich (University of Warsaw, Poland): *Study of Astrophysical Reactions with Photon Beams and Warsaw Active-target TPC*

Louis Lalanne (CERN, Switzerland): *Evolution of Ground-state Properties of Chromium Isotopes from Stability to the $N = 40$ Island of Inversion*

Simon Lechner (CERN, Switzerland): *Electromagnetic Moments of the Antimony ($Z = 51$) Isotopic Chain $^{112-133}\text{Sb}$ in Comparison to Shell-model and *Ab Initio* Calculations*

Marcos Llanos Expósito (Complutense University of Madrid, Spain): *Fast-timing Spectroscopy in the $^{128}\text{Cd} \rightarrow ^{128}\text{In} \rightarrow ^{128}\text{Sn}$ β -decay Chain*

Francesco Marino (University of Milan/INFN Milan, Italy): *From *Ab Initio* Nuclear Matter Theory to the Nuclear Energy Functional*

Magdalena Matejska-Minda (IFJ PAN, Cracow, Poland): *Studies of Quadrupole and Octupole Deformations in the $f_{7/2}$ Shell Nuclei via Coulomb Excitation*

Katarzyna Mazurek (IFJ PAN, Cracow, Poland): *Fission as a Relevant Probe of the Nuclear Level Density Away from β -stability*

Lukas Nies (University of Greifswald, Germany): *Recent Nuclear Structure Studies at $N = 50$ Through Masses of Isomeric States*

Jean Nippert (University of Strasbourg, France): *Recent Results on the Direct Measurement of the $^{12}\text{C} + ^{12}\text{C}$ Fusion Cross Section at Deep Sub-barrier Energies with STELLA*

Natalia Oreshkina (Max Planck Institute for Nuclear Physics, Heidelberg, Germany): *Theoretical Predictions of the Structure of Heavy Muonic Atoms and Access to the Nuclear Properties*

Luka Palada (Ruđer Bošković Institute, Zagreb, Croatia): *Clustering in $^{11,12,13}\text{C}$*

Giorgia Pasqualato (IJCLab, Orsay, France): *Evidence for Enhanced Collectivity in ^{58}Fe Examined Through Coulomb Excitation*

Stephane Pietri (GSI Darmstadt, Germany): *First Results from the New Isotope Search Experiment at GSI in FAIR Phase 0*

Krzysztof Pomorski (Maria Curie-Skłodowska University, Lublin, Poland): *Fission Fragment Mass and Kinetic Energy Yields of Fermium Isotopes*

Jordan Reilly (University of Manchester, UK): *Charge Radii Measurements of $^{26-34}\text{Al}$ Transitioning into the $N = 20$ Island of Inversion*

Duncan Robb (University of Edinburgh, UK): *Underground Measurements of the $^{16}\text{O}(p,\gamma)^{17}\text{F}$ Reaction at LUNA*

Tomás R. Rodríguez (Complutense University of Madrid, Spain): *Shape Evolution, Mixing and Coexistence from Nickel to Tin Isotopes*

Peng Shuai (Institute of Modern Physics, Chinese Academy of Sciences, Lanzhou, China): *Beta-decay Intensities of ^{107}Mo Determined by the Modular Total Absorption Spectrometer (MTAS)*

Janusz Skalski (National Centre for Nuclear Research, Warsaw, Poland): *High-K Ground States and Isomers in Superheavy Nuclei*

Matou Stemmler (Johannes Gutenberg University Mainz, Germany): *Resonance Ionization Mass Spectroscopy on Americium*

Michał Stepaniuk (University of Warsaw, Poland): *Beta Decay of Neutron-rich Bromine Isotopes Studied by Means of Modular Total Absorption Spectrometer*

Yakun Wang (Peking University, Beijing, China): *Relativistic Configuration-Interaction Density Functional Theory: Triaxial Effects and Nuclear Matrix Elements for $\beta\beta$ Decay*

Michał Warda (Maria Curie-Skłodowska University, Lublin, Poland): *Scission Configuration of Nuclei*

Jonathan Wilson (IJCLab, Orsay, France): *Emerging Results from the nu-Ball2 Experimental Campaign*

Magda Zielińska (CEA Saclay, France): *Triaxiality and Configuration Coexistence in ^{74}Zn*

Sven Åberg (Lund University, Sweden): *Angular Momentum in Fission Fragments*

POSTERS

Posters with oral presentations

Aleksander Augustyn (National Centre for Nuclear Research, Warsaw, Poland): *Fusion and Competitive Fission Modes in the Cold Synthesis of Super-heavy Nuclei*

Sara Carollo (University of Padova/INFN Padova, Italy): *Lifetime Measurements Around ^{86}Mo with GRETINA and the S800 Spectrometer at NSCL*

Arno Claessens (KU Leuven, Belgium): *Towards In-Gas-Jet Studies of $^{229m}\text{Th}^+$*

Giulia Colucci (University of Warsaw, Poland): *Quasielastic Barrier Distributions for the $^{20}\text{Ne}+^{92,94,95}\text{Mo}$ systems: Influence of Dissipation*

Giacomo Corbari (University of Milan/INFN Milan, Italy): *Study of the γ Decay from the Near-neutron-threshold 2^+ State in ^{14}C*

Rakesh Dubey (University of Szczecin, Poland): *Observation of a New Decay Channel of the DD Threshold Resonance*

Aysegül Ertoprak (INFN Legnaro, Italy): *Signatures for Octupole Collectivity in $T_z = 2$ nucleus ^{94}Rh*

Samuel Escrib López (Institute of the Structure of Matter (IEM-CSIC), Madrid, Spain): *Status of the WASA-FRS HypHI Experiment: Study of Light Hypernuclei at GSI-FAIR*

Dorian Frycz (University of Barcelona, Spain): *Shape Coexistence and Superdeformation in ^{28}Si*

Vicente García Távora (Institute of the Structure of Matter (IEM-CSIC), Madrid, Spain): *Scattering of ^{15}C on ^{208}Pb at Energies Near the Coulomb Barrier*

Yannen Jaganathen (National Centre for Nuclear Research, Warsaw, Poland): *Self-consistent Approach to Tripartition of Heavy and Superheavy Nuclei*

Grzegorz Jaworski (University of Warsaw, Poland): *Sailing with NEEDLE beyond the Horizon*

Michał Kowal (National Centre for Nuclear Research, Warsaw, Poland): *Isthmus Connecting Mainland and Island of Stability of Superheavy Nuclei*

Eleonora Kudaibergenova (TU Darmstadt, Germany): *Measurements of the Reaction Cross Sections of Neutron-rich Sn Isotopes at the R³B Setup*

Ivana Lihtar (Ruđer Bošković Institute, Zagreb, Croatia): *Coulomb Excitations in Neutron-rich Tin Isotopes as a Tool to Constrain Nuclear Equation of State*

Andrzej Makowski (Warsaw University of Technology, Poland): *Pairing Dynamics in Nuclear Collisions*

Joanna Matulewicz (University of Warsaw, Poland): *BN and SiO₂ as Targets for Proton-induced Reactions on Gaseous Elements: N and O*

Manoj Kumar Sharma (Thapar Institute of Engineering & Technology, India): *Sn Radioactivity of Lanthanide Nuclei Using Skyrme Density Energy Formalism*

Sahab Singh (Indian Institute of Technology Ropar, India): *Investigation of Interesting Spectroscopic Features in ^{202}Po around $Z = 82$ Shell Closure*

Tim Stetz (TU Darmstadt, Germany): *Evolution of the First Mixed-symmetry 2^+ State in the $N = 80$ Isotones*

Bogusław Włoch (IFJ PAN, Cracow, Poland): *Study of Relativistic Effects in Proton–Deuteron Breakup Reaction*

Abhishek Yadav (Jamia Millia Islamia, New Delhi, India): *Investigating the Effect of Transfer Channels on Reaction Dynamics Using the Quasi-elastic Barrier Distribution*

Other posters

Amanjot (Indian Institute of Technology Ropar, India): *Investigating Incomplete Fusion Channels in $^{12}\text{C} + ^{193}\text{Ir}$ System*

Yuliia Balkova (University of Silesia, Katowice, Poland): *Strangeness Production in Heavy-ion Collisions at the NA61/SHINE Experiment*

Giulia Ciconali (University of Milan/INFN Milan, Italy): *Search for Shape Coexistence in the Selenium Isotopes Near the $N = 50$ Neutron Shell Closure*

Natalia Cieplicka-Oryńczak (IFJ PAN, Cracow, Poland): *Studies of “Stretched” M_4 Resonances at CCB*

Rakesh Dubey (University of Szczecin, Poland): *Study of Entrance Channels Effects on Fusion–Fission and Quasi-fission Processes*

Rafael Escudeiro (INFN Padova, Italy): *Neutron Radiation Damage on a Planar Segmented Germanium Detector*

Victor Guadilla (University of Warsaw, Poland): *Constraining the Two-proton Radioactivity Branch in ^{39}Ti*

Corentin Hiver (IJCLab, Orsay, France): *High-precision Spectroscopy of Fission Shape Isomers with nu-Ball2: Exploring the Gamma Back-decay*

Katharina Ide (TU Darmstadt, Germany): *Lifetime Measurement of Low-lying Yrast States of ^{170}W*

Manpreet Kaur (Indian Institute of Technology Ropar, India): *Evolution of Alpha Cluster Preformation Probability in Neutron-rich $^{41,45,49}\text{Ca}^*$ Nuclear Systems*

Sonja Kujanpää (University of Jyväskylä, Finland): *RAPTOR — A Novel Collinear Laser Ionization Spectroscopy Experiment at the IGISOL Facility*

István Kuti (Institute for Nuclear Research, Debrecen, Hungary): *NEEDLE with Diamant on Board — Winning the Regatta*

Stefan Lalkovski (Sofia University, Bulgaria): *j -1 Anomalous States in Silver Nuclei*

Simon Lechner (CERN, Switzerland): *A Novel Laser Spectroscopy Technique for Observing the Most Exotic Nuclei*

Jozef Mišt (Comenius University Bratislava, Slovakia): *Structure of ^{182}Pt Investigated via β Decay of ^{182}Au*

Adrian Montes Plaza (University of Liverpool, UK/University of Jyväskylä, Finland): *Shape Coexistence in Neutron-deficient ^{190}Pb*

Clemens Nickel (TU Darmstadt, Germany): *First Direct Lifetime Determination of the First 2^+ State of ^{210}Pb*

Jarosław Perkowski (University of Łódź, Poland): *The New Multi-section Ionization Fission Chamber for Measurements of Reactions on ^{239}Pu Isotope*

Ankur Singh (Indian Institute of Technology Roorkee, India): *Signature of Incomplete Fusion in α Channels of the $^6\text{Li} + ^{93}\text{Nb}$ Reaction*

Ankur Singh (Indian Institute of Technology Roorkee, India): *A New Intensity for 93.31-keV γ Ray from the Decay of the ^{67}Ga Nuclide*

Adam Sitarčík (Comenius University Bratislava, Slovakia): *Production of Neutron-deficient Astatine and Radon Isotopes in Complete-fusion Reactions*

Katyayni Tiwari (Indian Institute of Technology Ropar, India): *New Gamma-ray Scanner for Tracking Arrays*

Marta Urbaniak (University of Silesia, Katowice, Poland): *Development of a New Beam Position Detector for NA61/SHINE Experiment*

Iriney Vasilev (Sofia University, Bulgaria): *Lifetime of the ^{99}Rh $7/2_1^+$ State from Fast-timing Measurements*

Abhishek Yadav (Jamia Millia Islamia, New Delhi, India): *A Systematic Study: Some Insights into the Low-energy Incomplete Fusion Reactions*

Anna Zdeb (Maria Curie-Skłodowska University, Lublin, Poland): *Pairing in Fission*