LIST OF INVITED TALKS

Dieter Ackermann, *Nuclear isomers in the heaviest nuclei and the odd nucleon as a sensitive probe of low-lying nuclear structure*

Deuk Soon Ahn, *Location of the neutron dripline at F, Ne, and Na*

Giovanna Benzoni, *Recent results from the DESPEC campaign at GSI*

Franco Camera, *Isospin mixing in medium mass nuclei*

Philippe Chomaz, *Quantum computing — one of hot topics in science*

Michał Ciemała, *Feeding of the isomers of different deformations via GDR gamma decay studied with nuBall + PARIS*

Natalia Cieplicka-Oryńczak, *M4 resonances in light nuclei studied at CCB*

Giacomo de Angelis, *Shell structure of the very n-rich Ni isotopes and the REMO project*

Iris Dillmann, *The TRISR project — a storage ring for neutron captures on radioactive nuclei*

Sean Freeman, *Transfer reactions with solenoidal spectrometers*

Martin Freer, *Insights into the structure of light nuclei*

Hans Fynbo, *Experiments on light nα nuclei* ^{8}Be, ^{12}C, *and* ^{16}O

Umesh Garg, *Nuclear incompressibility: Does it depend on nuclear structure?*

Jacek Golak, *Few-nucleon systems for nuclear physics*

Paolo Giubellino, *FAIR, the universe in the lab*

Gaute Hagen, *Recent progress in ab-initio computations of nuclei*

Muhsin Harakeh, *Isoscalar Giant Resonances — experiments with radioactive beams and storage rings*

Dan Hoff, *A crack in nuclear mirror symmetry*

Fedir A. Ivanyuk, *The fission observables of heavy and super-heavy nuclei*

Nicholas Keeley, *Near-barrier elastic scattering of* ^{17}Ne *from* ^{208}Pb

Silvia Leoni, *Gamma-ray spectroscopy of bound and unbound states in B, C, N, and O isotopes as a test-bench of nuclear structure theory*

Marek Lewitowicz, *NuPECC Long Range Plan 2024 for nuclear physics in Europe*

Elena Litvinova, *Reconciling collectivity, finite temperature and deformation in the relativistic nuclear field theory*

Yuri Litvinov, *Precision experiments with heavy-ion storage rings*

Katarzyna Mazurek, *The pre-equilibrium emission of light charged particles and the GDR strength functions*

Witold Nazarewicz, *Excitement and challenges in low-energy nuclear physics*

Gerda Neyens, *Laser spectroscopy at ISOLDE and new opportunities with radioactive molecules*

Takaharu Otsuka, *Prevailing triaxiality in nuclear shapes*

Costel Petrache, *Chirality, wobbling and oblate rotation*

Marek Pfützner, *Exotic decays with emission of charged particles*

Marek Płoszajczak, *Nuclear physics at the edge of stability*

Sakib Rahman, *Constraints on neutron-star radii from laboratory experiments*

Mark Riley, *Systematics of band termination at high-spin in $N \sim 90$ nuclei*

Xavier Roca-Maza, *Nuclear equation of state from nuclear collective excited state properties*

Krzysztof Rykaczewski, *Beta-decay studies with the Modular Total Absorption Spectrometer*

Hideyuki Sakai, *Facility upgrade for SHE research at RIKEN*

Hervé Savajols, *The Super Separator Spectrometer (S^3) for the very high intensity beams of SPIRAL2*

Haik Simon, *Experiments: from ALADIN-LAND to R^3B at GSI and FAIR*

Pietro Spagnoletti, *Experimental investigations of octupole collectivity in atomic nuclei*

Yoshiki Tanaka, *WASA-FRS experiments in FAIR Phase-0 at GSI*

Jose Javier Valiente Dobón, *The gamma-ray tracking array AGATA at LNL*

Jonathan Wilson, *Gamma-ray spectroscopy of nuclear fission*

Kathrin Wimmer, *In-beam gamma-ray spectroscopy with HiCARI*

LIST OF SEMINARS

Lama Al Ayoubi, *Beta decays of $^{82,83}Ga$ studied at the ALTO facility*

Michail Athanasakis-Kaklamanakis, *Nuclear-structure studies with laser spectroscopy of radioactive molecules*

Andy Briscoe, *Discovery of ^{160}Os and ^{156}W, and increasingly sensitive spectroscopy of the most neutron-deficient $N = 84$ isotones*

Tomasz Cap, *Diffusion as a possible mechanism controlling the production of superheavy nuclei in cold and hot fusion reactions*

Rikel Chakma, *Status of the SIRIUS detector array and investigation of the properties of ^{252}Fm*

Premaditya Chhetri, *First observation of the radiative decay of ^{229}Th low-lying isomer: recent results from ISOLDE*

Giacomo Corbari, *Gamma decay from the near-neutron-threshold 2^+ state in ^{14}C: a probe of collectivization phenomena in light nuclei*

Konrad Czerski, *Branching ratio of the deuteron–deuteron threshold resonance in ^4He*

Clement Delafosse, *First trap-assisted decay spectroscopy of the ^{81}Ge ground state*

Arnoldas Deltuva, *New developments in the description of four-nucleon continuum*

Daniel Fernandez, *Experimental study of high-energy fission and quasi-fission dynamics with fusion-induced fission reactions at VAMOS++*

Line Gaard Pedersen, *First spectroscopy of neutron rich odd–odd $^{74,76,78}Cu$*

Paul Garrett, *E0 transitions in ^{188}Hg and evidence of multiple shape coexistence*

Victor Guadilla, *Results of DTAS campaign at IGISOL: overview*

Corinna Henrich, *Coulomb excitation of ^{142}Xe*

Grzegorz Jaworski, *NEEDLE — fast neutron detection in the service of the gamma spectroscopy of neutron-deficient nuclei at HIL*

Desislava Kalaydjieva, *Multiple shape coexistence in ^{100}Zr*

Kieran Kessaci, *Spectroscopic studies of the neutron-rich $^{255/256}No$*

Andras Vitéz-Sveiczer, *Beta-decay properties of neutron-rich lanthanides and the formation of the rare-earth peak*

Noritaka Kitamura, *First beta-delayed neutron spectroscopy of* ^{24}O

Florian Kluwig, *Investigation of low-lying dipole excitations with real photon-scattering experiments*

Karolina Kolos, *Isomer studies for r-process nucleosynthesis*

Michał Kowal, *New possibilities for production of superheavy nuclei with* $Z = 112$*–*118 *in different evaporation channels*

Adam Kubiela, *Neutron deficient Zn isotopes studied with the optical TPC detector*

Magdalena Kuich, *Active target TPC for study of photonuclear reactions at astrophysical energies*

Maria Markova, *Evolution of the Pygmy Dipole Resonance in Sn isotopes*

Eliana Masha, *Study of the* $^{20}Ne(p,\gamma)^{21}Na$ *reaction at LUNA*

Deni Nurkić, *Cluster states in* ^{14}C *and* ^{15}C *studied with the* $^{10}Be + ^{9}Be$ *reactions*

Aurora Ortega Moral, *Neutron-deficient exotic decays in the* ^{48}Ni *region with ACTAR TPC*

Alejandro Ortiz Cortes, *Collinear laser spectroscopy on the palladium isotopic chain*

Giorgia Pasqualato, *Lifetime measurements in* ^{105}Sn*: nuclear structure studies close to the* $N = Z = 50$ *shell closure*

Julgen Pellumaj, *Lifetime measurements for nuclei in the* $1f_{7/2}$ *shell using the AGATA spectrometer*

Monika Piersa-Siłkowska, *First* β*-decay spectroscopy of* ^{135}In *and new* β*-decay branches of* ^{134}In

Marta Polettini, *Search for octupole deformation in* $A \sim 225$ *Po–Fr nuclei*

Krzysztof Pomorski, *Fission fragment mass yields of actinide nuclei*

Virender Ranga, *Measurements of* γ*-rays from* $^{16}O(p,p'\gamma)^{16}O$ *reaction*

Jordan Reilly, *The first charge radii measurements of* $^{33,34}Al$ *transitioning into the* $N = 20$ *island of inversion*

Kseniia Rezynkina, *Structure of* ^{83}As*,* ^{85}As *and* ^{87}As*: from semi-magicity to* γ*-softness*

Jose Luis Rodriguez Sanchez, *Nuclear fission studies in inverse kinematics with the* R^3B *setup at the GSI-FAIR facility*

Jorge Romero, *Nuclear Reaction Studies at MARA focusing on prospects for the new MARA-LEB facility*

Wojciech Satuła, *Charge-dependent DFT: formalism and selected applications*

Janusz Skalski, *High-K ground states and isomers in superheavy nuclei*

Masaomi Tanaka, *Optimal energy for element 119 synthesis via $^{51}V + ^{248}Cm$ reaction probed by quasielastic barrier distribution measurement*

Ablaihan Utepov, *Multinucleon transfer reactions in the $^{238}U + ^{238}U$ system studied with the VAMOS + AGATA + ID-Fix*

Bram van den Borne, *Approaching $N = 82$ through silver using laser spectroscopy*

Martin Venhart, *Nuclear structure of $^{181,183}Au$ isotopes studied via β^+/EC decays of $^{181,183}Hg$ at ISOLDE*

Nikola Vukman, *Helium clustering in neutron-rich Be isotopes*

Barbara Wasilewska, *The systematic study of Pygmy Dipole States in $^{40,44,48}Ca$ induced in the $(p, p'\gamma)$ reaction*

Aleksandrina Yaneva, *Lifetime measurement below the 14^+ isomer in ^{94}Pd*

Anna Zdeb, *Multidimensional PES in spontaneous fission*

Jianwei Zhao, *Studies of exotic nuclei with the FRS Ion Catcher at GSI*

Magda Zielińska, *Quadrupole and octupole collectivity in ^{96}Zr from Coulomb-excitation studies with the Q3D magnetic spectrograph*

LIST OF POSTERS

Giacomo Accorto, *Smoothing discuntinuities: effect on nuclear fission properties*

Betania Backes, *Mirror mirror on the wall: is isospin broken at all?*

Matus Balogh, *New collective structures in ^{179}Au*

Marcel Beckers, *Lifetime measurement of excited states in ^{144}Ce: Enhanced $E1$ strengths in a candidate for octupole*

Saikat Bhattacharjee, *Influence of entrance channel mass asymmetry on the degree of fusion hindrance*

Anna Bohn, *Extension of the level scheme of ^{104}Ru and lifetime determination using the Doppler-shift attenuation*

Vaibhav Chahar, *Chiral truncation errors in the $p(d,pp)n$ cross section at $E_d = 100$ MeV*

Xiangcheng Chen, *The NEXT step towards neutron-rich exotic nuclides*

Priyanka Choudhary, *Ab initio no-core shell model study of carbon isotopes*

Michał Ciemała, *Investigation of rare nuclear decays — double gamma decay in ^{137}Ba nucleus*

Navjot Dhillon, *System size effects on the energy of onset of vaporization*

Artur Dobrowolski, *Collective bands in ^{156}Dy*

Rakesh Dubey, *Development of the eLBRUS UHV accelerator system for studying nuclear reactions at very low energies*

Baptiste Fraisse, *Study of fast-neutron-induced fission for ^{238}U with SCONE at NFS*

Alexis Francheteau, *Study of the radiative decay of ^{252}Cf fission fragments*

Miki Fukutome, *One-neutron removal cross sections for the ^{16}N isomeric state*

Andrzej Góźdź, *Algebraic Generator Coordinate Method for mixed states*

Victor Guadilla, *Supervised event classification in an Optical Time Projection Chamber*

Shivani Jain, *Signature of hexadecapole deformation in the synthesis of superheavy elements via hot and cold fusion processes*

Anuj Kumar Jashwal, *Exploring entrance channel effects in the interaction of ^{16}O with ^{93}Nb*

Pavneet Kaur, *Fingerprints of different fission modes in sub-lead Au-nuclei*

Gregor Kosir, *Designing a BGO active shield for DEGAS*

Pavel Kostryukov, *Neutron emission in low-energy nuclear fission in framework of the Fourier shape parameterization*

Agata Kowalska, *XRD and PAS investigations of deuteron irradiated zirconium samples*

Rishabh Kumar, *Competing incomplete fusion and transfer processes in* $^{6}Li + ^{181}Ta$ *reaction*

Shelly Lesher, *Collectivity in erbium*

Juan Lois Fuentes, *Transfer reactions with the active target ACTAR TPC*

Ms Madhu, *Isomers and octupole correlations in transitional nuclei beyond* ^{208}Pb

Andrzej Makowski, *Pairing dynamics in nuclear reactions*

Jose Marin Blanco, *Study of spontaneous fission half-lives in actinide and superheavy nuclei*

Norihide Noguchi, *Reaction cross section measurements for the enhancement of applicability of Glauber model to heavy neutron-rich nuclei*

Luka Palada, *Structure of light atomic nuclei studied with nuclear reaction* $^{14}N + ^{10}B$

Aleksandra Podwysocka, *Studies of relativistic effects in three nucleon systems*

Francesco Pogliano, *Indirect measurement of the* (n, γ) ^{127}Sb *cross section*

Bożena Pomorska, *Potential energy surfaces and decay life-times of SHN*

Han-Bum Rhee, *CALIFA: A versatile calorimeter and spectrometer for* R^3B *at FAIR*

Malvika Sagwal, *Analysis of* $^{12}C + ^{93}Nb$ *reaction: Production of clinically relevant* ^{101m}Rh *via* ^{101}Pd

Elif Sahin, *Lifetime measurements of low-lying excited states in* ^{190}W *with DESPEC*

Lalit Kumar Sahoo, *Study of* $^{19}F(p, \alpha)$ *reaction in low energy regions*

Gayatri Sarkar, $^{7}Li + ^{93}Nb$*: A study of complete versus incomplete fusion*

Vasile-Alin Sevestrean, *Improved calculation of electron phase-space factors in electron capture*

Min Si, *Beta decay spectroscopy of the neutron-rich ^{137}Te and ^{136}Sb isotopes*

Katarzyna Słabkowska, *Energy released by electron capture into atomic subshells of ^{84m}Rb isomer for different ionization degree*

Anamaria Spataru, *Shape phase transition at $N = 90$ and isotopic fission yields using high precision mass measurements at the FRS-IC*

Michał Stepaniuk, *Beta decay of neutron rich bromine isotopes studied by means of Modular Total Absorption Spectrometer*

Augustinas Stepsys, *Algebraic translationally invariant approach to small nuclear systems*

Isabela Tisma, *Excitation function of ^{24}Mg above the $^{12}C + ^{12}C$ decay threshold*

Andras Vitéz-Sveiczer, *Comprehensive study of the β-decay of ^{71}Kr*

Franziskus Von Spee, *Lifetime measurements in neutron deficient Te isotopes*

Marzena Wolińska-Cichocka, *Beta decay of $A = 142$ isobars improved by means of MTAS array*

Khamosh Yadav, *High-spin spectroscopy of ^{215}Fr: connecting gaps between single-particle and collective modes of excitation*

Luca Zago, *High-spin states in ^{212}Po above the alpha-decaying (18^+) isomer*