Program for

International Symposium
Commemorating the 40th Anniversary of the Halo Nuclei

October 12 - 18, 2025 | Capital Hotel, Beijing

October 12th, 2025 (Sunday)	
15:00-20:00	Registration (1st Floor at the Capital Hotel)
18:00-20:00	Reception

Conference Room: 2F Ziyun Grand Ballroom (紫云厅)

October 13th, 2025 (Monday)			
8:00-8:30	Registration		
8:30-8:45	Opening		
Time	Speaker	Title	Chair
8:45-9:10 *(20+5 min)*	**Isao Tanihata** Beihang University / Osaka University	Neutron halo to Tensor interactions	**Shan-Gui Zhou** Institute of Theoretical Physics, Chinese Academy of Sciences
9:10-9:35 *(20+5 min)*	**Meng Wang** Institute of Modern Physics, CAS	Introduction on the High Intensity Heavy-ion Accelerator Facility (HIAF)	
9:35-10:00 *(20+5 min)*	**Peter Ring** Technischen Universität München	Theoretical Methods to Describe Halo-Phenomena in Nuclei	

10:00-10:45	Photo and Break		
10:45-11:10 *(20+5 min)*	**Takashi Nakamura** Institute of Science Tokyo	Coulomb Breakup and soft E1 excitation of Halo Nuclei: Present and Future	**Dario Vretenar** University of Zagreb
11:10-11:35 *(20+5 min)*	**Byungsik Hong** Korea University	Status of LAMPS at RAON	
11:35-12:00 *(20+5 min)*	**Youbao Wang** China Institute of Atomic Energy	Nuclear Physics at Beijing Rare Isotope Facility (BRIF)	
12:00-14:00	Lunch		
Time	Speaker	Title	Chair
14:00-14:25 *(20+5 min)*	**Pierre Descouvemont** Université Libre de Bruxelles	Microscopic study of halo nuclei through (p, t) reactions	**Taka Kajino** Beihang University / University of Tokyo / NAOJ
14:25-14:50 *(20+5 min)*	**Baohua Sun** Beihang University	Deducing charge radii from charge-changing reactions of rare isotopes	
14:50-15:15 *(20+5 min)*	**Masaomi Tanaka** Kyushu University	Recent results of interaction cross section measurements in Japan	
15:15-15:40 *(20+5 min)*	**Enrico Vigezzi** INFN Milano	A dynamical model of light neutron halos	
15:40-16:00	Break		
16:00-16:25 *(20+5 min)*	**Hui Hua** Peking University	Decay and Structure of Nuclei around the Light Proton Drip Line	**Shuangquan Zhang** Peking University
16:25-16:50 *(20+5 min)*	**Elias Khan** IJCLab	Exotic nuclear phases, structure, and decay	
16:50-17:15 *(20+5 min)*	**Lu Guo** University of Chinese Academy of Sciences	Microscopic dynamics: from fusion and quasifission to fission	
17:15-17:40 *(20+5 min)*	**Wen Hui Long** Lanzhou University	Exchange correlation effects in nuclear novel phenomena	
17:40-18:05 *(20+5 min)*	**Ivan Muhka** GSI	Two-proton emitters "reflecting" the halo structure of their mirror neutron-rich nuclei	

October 14th, 2025 (Tuesday)			
Time	Speaker	Title	Chair
8:30-8:55 *(20+5 min)*	**Lisheng Geng** Beihang University	Relativistic chiral nuclear forces: recent developments and applications	**Jianyou Guo** Anhui University
8:55-9:20 *(20+5 min)*	**Petr Navratil** TRIUMF	Halo nuclei from ab initio nuclear theory	
9:20-9:45 *(20+5 min)*	**Takaharu Otsuka** The University of Tokyo	Shape deformation and halo formation	
9:45-10:00 *(12+3 min)*	**Xiu-Lei Ren** Shandong University	A subtractive renormalization scheme on Chiral EFT and Halo EFT	
10:00-10:15 *(12+3 min)*	**Xiao-Dong Xu** IMP, CAS	Observation and spectroscopy of new proton-unbound nuclei 21Al and 20Al	
10:15-10:35	Break		
10:35-11:00 *(20+5 min)*	**Grzegorz Kaminski** FLNR, JINR	Research with light exotic nuclei at the FLNR, JINR	**Zhipan Li** Southwest University
11:00-11:25 *(20+5 min)*	**Chengjian Lin** China Institute of Atomic Energy	Nuclear halos and related studies at the China Institute of Atomic Energy	
11:25-11:40 *(12+3 min)*	**Kaijia Sun** Fudan University	Production of strange halo nuclei in heavy-ion collisions	
11:40-11:55 *(12+3 min)*	**Xiaodong Tang** Institute of Modern Physics, CAS	Fusion reaction studies with neutron-rich beams	
11:55-12:10 *(12+3 min)*	**Nan Wang** Shenzhen University	The impact of nucleon-nucleon collisions on heavy-ion fusion reactions: An investigation utilizing time-dependent Hartree-Fock theory with the relaxation-time approximation	
12:10-14:00	Lunch		
Time	Speaker	Title	Chair

14:00-14:25 *(20+5 min)*	**Kouichi Hagino** Kyoto University	Deformation and pairing in neutron-rich halo nuclei	**Takeshi Suzuki** Saitama University / RIKEN
14:25-14:50 *(20+5 min)*	**Wataru Horiuchi** Osaka Metropolitan University	Nuclear halo: size, excitations, and related phenomena	
14:50-15:05 *(12+3 min)*	**Lang Liu** Jiangnan University	Pairing Phase Transition in Hot Nuclei	
15:05-15:20 *(12+3 min)*	**Bo Li*** Peking University	Relativistic continuum Hartree-Bogoliubov theory in three-dimensional lattice space	
15:20-15:35 *(12+3 min)*	**Xue Liu** Beijing Normal University	Determination of the rms radius of the neutron single-particle orbital in 17B	
15:35-15:50 *(12+3 min)*	**Kaiyuan Zhang** Institute of Nuclear Physics and Chemistry, CAEP	Triaxially deformed halo nuclei	
15:50-16:10	Break		
16:10-16:35 *(20+5 min)*	**Lie-Wen Chen** Shanghai Jiao Tong University	PREX and CREX: Evidence of Strong Isovector Spin-Orbit Interaction	**Xiaotao He** Nanjing University of Aeronautics and Astronautics
16:35-17:00 *(20+5 min)*	**Jianjun He** Fudan University	Mystery of Calcium production in the first generation stars	
17:00-17:25 *(20+5 min)*	**Aurora Tumino** LNS, Catania	Indirect Probes of Nuclear Astrophysics and Fundamental Symmetries	
17:25-17:40 *(12+3 min)*	**Fei Lu** Shanghai Advanced Research Institute, CAS	Probing Highly Excited States in the Exotic Nucleus 61Fe via the Beta-Oslo Method	
17:40-17:55 *(12+3 min)*	**Junping Yang*** Shenzhen University	Revisiting the neutron-proton effective mass splitting in heavy-ion collisions: Is the momentum dependence of the symmetry potential monotonic?	
17:55-18:10 *(12+3 min)*	**Zhonghao Tu*** Xiamen University	Unified quark mean field equation of state for neutron star matter: Static and dynamic properties	

October 15th, 2025 (Wednesday)			
Time	Speaker	Title	Chair
8:30-8:55 *(20+5 min)*	**Yury Litvinov** GSI	Nuclear Astrophysics at Low-Energy Storage Rings	**Byungsik Hong** Korea University
8:55-9:20 *(20+5 min)*	**Dimitar Tonev** INRNE, BAS	Lifetime measurements – a powerful tool to study nuclear structure	
9:20-9:45 *(20+5 min)*	**Takayuki Yamaguchi** Saitama University	The Rare-RI Ring facility	
9:45-10:00 *(12+3 min)*	**Wei Nan*** CIAE	First experiment using post-accelerated unstable ion beams at BRIF: angular distribution of the 21,22Na elastic scattering from doubly magic 40Ca	
10:00-10:15 *(12+3 min)*	**Yazhou Sun** Institute of Modern Physics, CAS	Reactions with RIBs at RIBLL2-ETF	
10:15-10:35	Break		
10:35-11:00 *(20+5 min)*	**Nikolai Antonenko** BLTP, JINR	Perspectives for cold and hot fusion reactions	**Pierre Descouvemont** Université Libre de Bruxelles
11:00-11:25 *(20+5 min)*	**Jenny Lee** The University of Hong Kong	Structural evolution of neutron-rich Calcium isotopes	
11:25-11:40 *(12+3 min)*	**Fulong Liu*** University of Tokyo	Experimental investigation of the 6He + p reaction: Elastic scattering and two-neutron transfer	
11:40-11:55 *(12+3 min)*	**Yiping Wang*** Peking University	Configuration-interaction time-dependent density functional theory and its first application	
11:55-12:10 *(12+3 min)*	**Dan Dan Zhang*** ITP, CAS	Mass and Spin Distributions of Fragments in Multinucleon Transfer Reactions with Time-Dependent Covariant Density Functional Theory	
12:10-14:00	Lunch		
Time	Speaker	Title	Chair

14:00-14:25 *(20+5 min)*	**Emiko Hiyama** Tohoku University / RIKEN	Structure of neutron-rich nucleus, 7H	**Elias Khan** IJCLab
14:25-14:50 *(20+5 min)*	**Zaihong Yang** Peking University	Halos and multi-neutron correlations in light neutron-rich nuclei	
14:50-15:05 *(12+3 min)*	**Jing Geng*** Lanzhou University	A coherent microscopic picture for the exotic structure of 11Be	
15:05-15:20 *(12+3 min)*	**Qi Lu*** Beihang University	Progress on the description of 1n halo nuclei from microscopic structures to reaction observables	
15:20-15:35 *(12+3 min)*	**Kosei Nakagawa*** Kyoto University	α+^{2}n+^{2}n cluster structure and ^{2}n breaking in ^{8}He (0_2^+)	
15:35-15:50 *(12+3 min)*	**De-Ye Tao*** Fudan University	Dineutron and diproton halo structures in light nuclei	
15:50-16:10	Break		
16:10-16:35 *(20+5 min)*	**Lorenzo Fortunato** University of Padua	Halo phenomena in light to medium mass nuclei with three-body models	**Zhong Liu** IMP, CAS
16:35-17:00 *(20+5 min)*	**Simin Wang** Fudan University	Exotic Three-Body Decay in Open Quantum Systems	
17:00-17:15 *(12+3 min)*	**Yongbeom Choi*** Beihang University	Half-Lives of One-Proton Emission for Odd-Z Nuclei near the Proton Drip-Line	
17:15-17:30 *(12+3 min)*	**Shihang Shen** Beihang University	Ab initio study of Beryllium isotopes: clustering, molecular orbital, and halo	
17:30-17:45 *(12+3 min)*	**Hankui Wang** Zhejiang Sci-Tech University	Monopole effects: the key role to explain neutron-rich nuclear structure	
17:45-18:00 *(12+3 min)*	**Chang Zhou*** Peking University	Deformed halo nucleus 42Mg in deformed relativistic Hartree-Bogoliubov theory in continuum with Lipkin-Nogami correction	
18:30-21:00	Banquet		

October 16th, 2025 (Thursday)			
Time	Speaker	Title	Chair
8:30-8:55 *(20+5 min)*	**Gongtao Fan** SARI, CAS	Status of Shanghai Laser Electron Gamma Source	**Aurora Tumino** Laboratori Nazionali del Sud, Catania
8:55-9:20 *(20+5 min)*	**Hiroyuki Sagawa** RIKEN / University of Aizu	A Halo: the trigger to new era of nuclear correlations	
9:20-9:45 *(20+5 min)*	**Yuanming Xing** Institute of Modern Physics, CAS	Nuclear mass measurements reveal exotic structures in proton-rich sd-shell nuclei	
9:45-10:00 *(12+3 min)*	**Xiaofei Jiang*** Peking University	Dipole response in deformed halo nuclei 42,44Mg	
10:00-10:15 *(12+3 min)*	**Cong Pan*** Anhui Normal University	Prediction of deformed and spherical halo nuclei in neutron-rich silicon isotopes	
10:15-10:35	Break		
10:35-11:00 *(20+5 min)*	**Lei Jin** Tongji University	SMOOTHIE: A Computational Tool for Nonelastic Breakup Calculations using the Ichimura-Austern-Vincent Formalism	**Ivan Mukha** GSI
11:00-11:25 *(20+5 min)*	**Tetsuaki Moriguchi** University of Tsukuba	Measurements of Reaction Cross Sections with a Solid Hydrogen Target and Development of the Target System	
11:25-11:40 *(12+3 min)*	**Rinku Kumar Prajapat*** GSI	Measurement of interaction and charge-changing cross-sections of carbon isotopes	
11:40-11:55 *(12+3 min)*	**Jian Li** Jilin University	Microscopic study of charge properties in halo nuclei	
11:55-12:10 *(12+3 min)*	**Jun-Yao Xu*** Beihang University	Exponential pattern of Charge-changing cross sections of relativistic nuclei on various reaction targets	
12:10-12:25 *(12+3 min)*	**Jichao Zhang*** RCNP, University of Osaka	Charge pickup reaction cross section for neutron-rich p-shell isotopes at 900A MeV	
12:25-14:00	Lunch		
14:00-18:00	Free Discussions		

October 17th, 2025 (Friday)			
Time	Speaker	Title	Chair
8:30-8:55 *(20+5 min)*	**Faical Azaiez** LNL-INFN	SPES project status and future plans	**Nikolai Antonenko** BLTP, JINR
8:55-9:20 *(20+5 min)*	**Yumin Zhao** Shanghai Jiao Tong University	Recent advance in the nucleon-pair approximation to the shell model	
9:20-9:35 *(12+3 min)*	**Boshuai Cai*** Sun Yat-sen University	Microscopic Description of α Formation Based on Configuration Interaction Shell Model	
9:35-9:50 *(12+3 min)*	**Hadi Sobhani** Nankai University	New studies in the shell and collective models	
9:50-10:05 *(12+3 min)*	**Tianyu Wu*** Beihang University	Point-proton density distributions of stable nuclei	
10:05-10:25	Break		
10:25-10:50 *(20+5 min)*	**Jie Chen** Southern University of Science and Technology	Unraveling the Structure of Be isotopes and the Disappearance of the N=8 Magic Number	**Emiko Hiyama** Tohoku University / RIKEN
10:50-11:15 *(20+5 min)*	**Nobu Kobayashi** RCNP	TBD	
11:15-11:30 *(12+3 min)*	**Weijie Du** Institute of Modern Physics, CAS	Many-nucleon structure and dynamics via quantum computing	
11:30-11:45 *(12+3 min)*	**Xiao Lu*** Institute of Theoretical Physics, CAS	Dipole response of deformed halo nuclei 31Ne and 37Mg	
11:45-12:00 *(12+3 min)*	**Xuan Wang*** Beihang University	Study of (p ,t) reaction on 11Li at 6 MeV/nucleon	
12:00-14:00	Lunch		

Time	Speaker	Title	Chair
14:00-14:25 *(20+5 min)*	**Alisher Sanetullaev** New Uzbekistan University	Probing Cluster Correlations in Neutron-Rich Ca Isotopes with Quasi-Free Scattering	**Petr Navratil** TRIUMF
14:25-14:50 *(20+5 min)*	**Bo Zhou** Fudan University	Gas-like Cluster States in Light Nuclei	
14:50-15:05 *(12+3 min)*	**Mingyan Li** Hunan University	The electromagnetic form factors of the hyperon Σ in the time like region	
15:05-15:20 *(12+3 min)*	**Weifeng Li** Anhui University	Predictions for the (n, 2n) reaction cross section based on a Bayesian neural network approach	
15:20-15:35 *(12+3 min)*	**Zhixuan Wang** Sun Yat-sen University	Study on the Excited State Lifetimes of Neutron-Rich Isotopes - Based on 252Cf Fission Experiments	
15:35-15:50 *(12+3 min)*	**Jianwei Zhao** Beihang University	Fission isomer studies with advanced experimental facilities and detection systems	
15:50-16:10	Break		
16:10-16:35 *(20+5 min)*	**Nobuo Hinohara** University of Tsukuba	Recent developments and applications of the finite-amplitude method for nuclear collective excitations	**Dimitar Tonev** Institute of Nuclear Research and Nuclear Energy, Bulgarian Academy of Sciences
16:35-17:00 *(20+5 min)*	**Giuseppe Verde** INFN	TBD	
17:00-17:15 *(12+3 min)*	**Fengcheng Liu** Beijing Normal University	Decay measurement of 235U fission products based on LAMBDA-II and its application in the study of reactor neutrino anomalies	
17:15-17:30 *(12+3 min)*	**Ying Zhang** Tianjin University	Probing the Λ Hyperon Drip Line in Multi-Λ Oxygen and Calcium Hypernuclei	
17:30-18:00	Closing		

Note: An asterisk (*) indicates a candidate for the Best Talk Award for Young Scholars.