

## China-Japan Joint School for Nuclear Physics (CJNP)

PART 1: Aug. 20-23

Aug. 20, 2025	
<b>17:00-24:00</b>	<b>Welcome and Registration at Lanzhou Airport</b>
<b>18:00-19:30</b>	<b>Registration at Lanzhou Legend Hotel</b> <b>(In case you missed it, please finish it the next day at IMP)</b>
<b>18:00-19:30</b>	<b>Buffet (Pick up buffet ticket at registration desk, Lanzhou Legend Hotel)</b>

Aug. 21, 2025		
Morning Session (8:30-12:00), Academic Lecture Hall, IMP		
8:00	Leaving from the hotel lobby together with the guide	
8:00-10:15	<b>Registration at the Academic Lecture Hall, IMP</b>	
8:30-8:35	Welcome	Guoqing Xiao (IMP, CAS)
8:35-8:40		Daisuke Suzuki (Univ. of Tokyo)
8:40-8:45		Kenji Someno (RIKEN)
8:45-8:50		Haitao Chen (CAS)
8:50-9:20	Proton structure: what we know and what we don't know	Xingbo Zhao (IMP, CAS)
9:20-9:50	Low Energy Nuclear Physics	Xiaodong Tang (IMP, CAS)
9:50-10:20	High Energy Nuclear Physics	Yapeng Zhang (IMP, CAS)
10:20-12:00	Group photo & Facility tour (IMP museum, HIFRL facility)	
<b>12:00-14:00</b>	<b>LUNCH Break (Cafeteria of Lanzhou Branch)</b>	
14:00-17:40	Student symposium	Academic Lecture Hall, IMP
<b>19:00-20:30</b>	<b>Social dinner (Lanzhou Legend Hotel)</b>	

Aug. 22, 2025		
8:00	Leaving from the hotel lobby together with the guide	
Morning session (8:30-12:00), Visiting Northwest Institute of Eco-Environment and Resource (NIEER), CAS		
8:30-9:00	Visiting Science and Technology Innovation Exhibition Hall	Liao Jie (NIEER,CAS)
9:00-9:40	Pursuit of Sustainable Desertification Restoration in China-A Case Study of Naiman Desertification Research Station, CAS	Zhao Xueyong (NIEER,CAS)
9:40-10:20	Aeolian desertification in China	Peng Fei (NIEER,CAS)
10:20-10:40 Tea break		
10:40-11:20	Thawing permafrost and its impact for environmental systems and infrastructure under a changing climate	Chen Lin (NIEER,CAS)
11:20-12:00	Strive to Reach New Heights - Mount Everest Climbing & Scientific Expedition	Yin Xiufeng (NIEER,CAS)
12:00-14:00	LUNCH Break (Cafeteria of Lanzhou Branch)	
14:00-17:40	Student symposium	1006, Floor 10, Building 5 Atomic Conference room, Floor 6, Building 5
18:00-19:30	Buffet (Lanzhou Legend Hotel)	

Aug. 23, 2025		
8:00	Leaving from the hotel lobby together with the guide	
8:30-12:10	Student symposium	Academic Lecture Hall, IMP
<b>12:00-14:00</b>	<b>LUNCH Break (Cafeteria of Lanzhou Branch) and NUSYS registration at Lanzhou Legend Hotel</b>	
14:00-18:00	NUSYS registration at Lanzhou Legend Hotel and FREE discussion	
<b>17:30-19:30</b>	<b>Buffet (Lanzhou Legend Hotel)</b>	

Aug. 24-Aug. 29 NUSYS at Lanzhou University (See details in the NUSYS handbook)

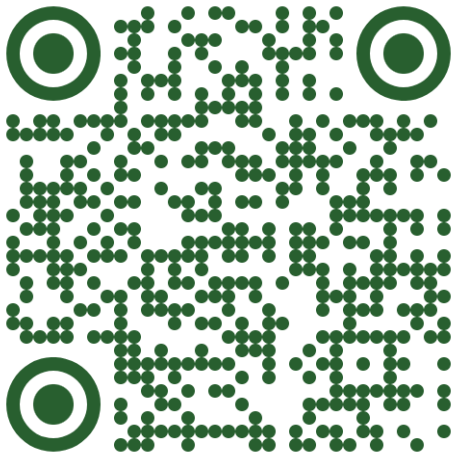
Aug. 30 Departure

Emergency contact:

Mr. Jiawei CAI ([caijiawei@impcas.ac.cn](mailto:caijiawei@impcas.ac.cn), 18801378849)

Ms. Yihua FAN ([fanyihua@impcas.ac.cn](mailto:fanyihua@impcas.ac.cn), 18073539419)

QR code of this most updated schedule

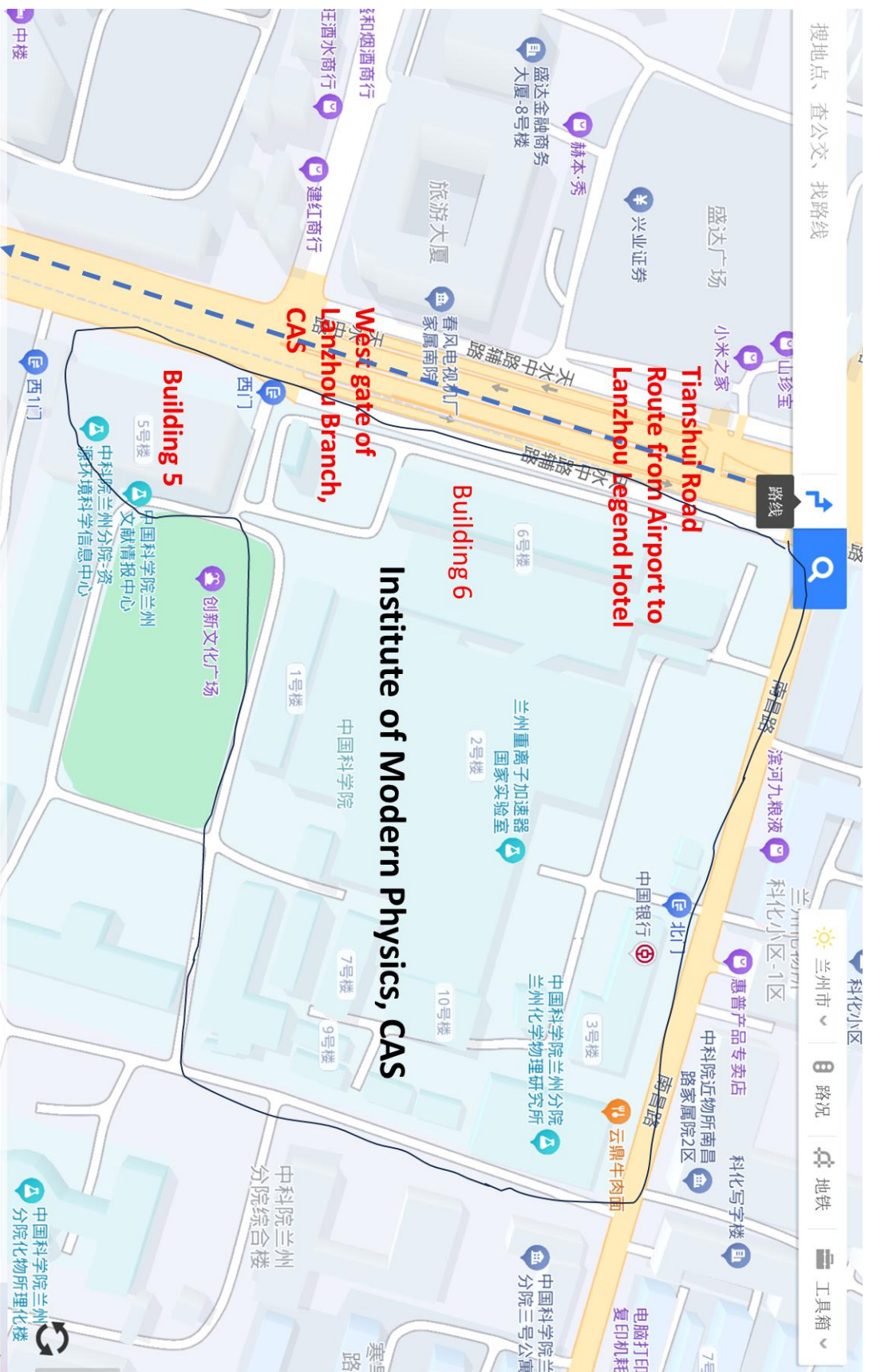


[https://indico.ihep.ac.cn/event/25165/attachments/87983/122694/CJNP\\_Schedule\\_v2.pdf](https://indico.ihep.ac.cn/event/25165/attachments/87983/122694/CJNP_Schedule_v2.pdf)



Red line: underground tunnels

Solid Blue line: walking route to the west gate of Lanzhou Branch, CAS





# Student Symposium Schedule

Date/ROOM	Starting Time	Name	Affiliation	Title
Aug.21 (Academic Lecture Hall, Floor 3, BLD 6)	S1 14:00	Junrui Ma	Southern University of Science and Technology	Inelastic scattering of $^{16}\text{C}$ on deuterons at 11.5A MeV with the AT-TPC
	S1 14:12	Yusuke Fukuzawa	Hosei university	Development of an efficient neutralizer for generating slow rare RI atomic beams
	S1 14:24	Ryosuke Shikada	Kyushu University	Development and performance evaluation of Multi-Sampling Ionization Chamber for high-intensity RI beam identification
	S1 14:36	Koki Shimizu	Meiji University	Simulation of neutralizer in sextupole magnetic field
	S1 14:48	Asahi Yano	University of Tsukuba / RIKEN	Recent upgrade of the Rare-RI Ring
	15:00-15:20 Tea break			
	S2 15:20	Fumiya Furukawa	The University of Osaka	Development of Online filters in Streaming DAQ for the study of two-nucleon correlations
	S2 15:32	Yuta Kikuchi	Saitama University	Evaluation of Energy Distributions of Trapped Ions in SCRIT
	S2 15:44	Zongchi Li	Institute of Modern Physics, CAS	$\alpha$ -Decay Properties of the Neutron-Deficient Isotope $^{230}\text{Am}$
	S2 15:56	Kotaro Koga	Institute of Science Tokyo	Development of axially-symmetric Skyrme Hartree-Fock code to realize an imaginary-time method for many-body tunneling phenomena
	S2 16:08	Shinya Takagi	Kindai University	Impact of Neutron Emission in Mass Distributions of Fission Fragments from Highly Excited Nuclei within a Langevin Framework
	16:20-16:40 Tea break			
	S3 16:40	Chang-hoon Song	Pusan National University (PNU)	Langevin Modeling of Proton-induced $^{238}\text{U}$ Fission with MCF
	S3 16:52	Zepeng Gao	Sun yat-sen University	Concentrated valence nucleons transfer in heavy-ion collisions: implications for questing the stable superheavy elements
	S3 17:04	Jing Jing Geng	Yangzhou University	Effect of temperature-dependent shell correction on prediction of production cross sections for superheavy nuclei
	S3 17:16	Kohta Nakajima	Kindai University	Reaction Mechanism of compound nuclei by multinucleon transfer reaction
	S3 17:28	Ryusei Matsui	Kyushu University	Nuclear moment measurements of $^{130}\text{Sn}$ and $^{132}\text{Sn}$ isomers at RIBF

Date/ROOM	Starting Time	Name	Affiliation	Title
Aug.22_a (Atomic Conference Room, Floor 6, BLD 5)	S4 14:00	Motoya Matsuda	The University of Osaka	Study of nuclear structure in $^{32}\text{Al}$ and $^{33}\text{Al}$ by $\beta$ -delayed-neutron decay of spin polarized $^{33}\text{Mg}$
	S4 14:12	Qiuyue Luo	China Spallation Neutron Source, Institute of High Energy Physics	Experimental Study on Differential Cross Section of $^{14}\text{N}(\text{n}, \text{p})^{14}\text{C}$ Reaction
	S4 14:24	Taichi Miyagawa	The University of Osaka	Alpha particles as building block of $^{16}\text{O}$ ground state probed by alpha knockout reaction
	S4 14:36	Xinyuan Huang	Institute of Modern Physics, CAS	The synthesis of 115 element (Mc)
	S4 14:48	Ibuki Yasuda	Saitama University	Measurement of charge-changing cross sections of $^{46}\text{Ti}$ on $^{12}\text{C}$ from intermediate to high energies
	15:00-15:20 Tea break			
	S5 15:20	Satoru Nishizawa	Saitama University	Measurement of the production cross-section of the medical $\alpha$ emitter Ac-225 generated through nuclear fragmentation reaction of U-238 beam
	S5 15:32	Wanli Lv	Lanzhou University	Description of the $0\nu\beta\beta$ decay with the quasiparticle vibration coupling model
	S5 15:44	Shun Tanaka	Kyushu University	Which part of the nucleus is probed by the knockout reaction?
	S5 15:56	Hao Zhou	Institute of Modern Physics, CAS	Investigation of the Electron-Capture Delayed Fission in the very neutron-deficient isotope $^{244}\text{Md}$
	S5 16:08	Kenta Suzuki	Hokkaido University	Exploring Shape Coexistence and Exotic Symmetries in Mid-Heavy Nuclei: Te and Zr Isotopic Chains
	16:20-16:40 Tea break			
	S6 16:40	Masaya Homma	Hokkaido University	Microscopic determination of the interacting boson-fermion model Hamiltonian from nuclear density functional theory
	S6 16:52	Xuelin Zhi	Lanzhou University	The role of forbidden transitions on $\beta$ -decay half-lives within Skyrme quasiparticle vibration coupling framework
	S6 17:04	Takumi Shoji	University of Tsukuba	Shell model calculation for medium-heavy nuclei based on effective interaction derived from the VS-IMSRG method
	S6 17:16	Weidong Zhang	Institute of Modern Physics, CAS	Conceptual Analysis of Twin-MUSIC for Application at HIAF-HIRIBL
	S6 17:28	Kota Yoshinaga	University of Tsukuba	Shell model with density functionals to understand shell structure
	S6 17:40	Yaojie Zhai	Institute of Modern Physics, CAS	Development of a Polarized H <sup>+</sup> /D <sup>+</sup> Ion Source at IMP
Date/ROOM	Starting Time	Name	Affiliation	Title
	S7 14:00	Qingyuan Xu	Fudan University	Proton Emission Phenomenon of the Deformed Nuclide $^{185}\text{Bi}$
	S7 14:12	Manato Wada	Niigata university	One-Boson Exchange "Nuclear" Force in a QCD-Like Theory
	S7 14:24	Yin Xin	Shanghai Jiao Tong University	low-lying states of Ba-144 isotopes
	S7 14:36	Chisato Uno	Tokyo Metropolitan University	Wave functions and radii of bound states with Coulomb plus short-range interaction
	S7 14:48	Peng Li	Lanzhou University	Artificial Neural Networks for Predicting Nuclear $\beta^{-}$ , $\alpha$ , and $\beta^{+}$ Decay Modes and Half-lives

Aug.22_b (1006, Floor 10, BLD 5)	15:00-15:20 Tea break			
	S8 15:20	Sho Nishioka	The University of Osaka	Measurement of Proton-Neutron Pair Transfer Reaction $^{120}\text{Sn}(4\text{He},6\text{Li})$ at Forward Angles with Grand Raiden
	S8 15:32	Jing Geng	Lanzhou University	Time-dependent Relativistic Hartree-Fock Model
	S8 15:44	Jun Mitsuhashi	Niigata University	Surface Oscillation Modes of Superfluid Droplets
	S8 15:56	Hadi Sobhani	Nankai university	New studies in the shell and collective models
	S8 16:08	Gen Uratsu	Kyushu University	Three-baryon forces probed by deuteron-Xi femtoscopy
	16:20-16:40 Tea break			
	S9 16:40	Hiroki Kida	Kyushu University	Analysis of antisymmetric spin-orbit forces due to three-body nuclear forces using density functional theory
	S9 16:52	Yumeng Wang	Jiangnan University	Pairing phase transition in the odd-A nuclei: identification and classification
	S9 17:04	Lee Taeho	Institute of Science Tokyo	Computational Approach of Neutron Star Structure with Equation of State including Hyperon Mixing
	S9 17:16	Eisuke Kawamura	Institute of Science Tokyo	System size probed by the momentum distribution
	S9 17:28	Hengyi Wang	Shanghai Jiao Tong University	Simple Mass Relations of Mirror Nuclei
	S9 17:40	Yanzhao Wang	Tomsk Polytechnic University	Excitation of low-energy transitions in nuclei by twisted photons



Date/ROOM	Starting Time	Name	Affiliation	Title
Aug.23 (Academic Lecture Hall, Floor 3, BLD 6)	S10 8:30	Xin Kong	Institute of Modern Physics, CAS	On-line test of a cryogenic gas catcher for the MRTOF-MS at SHANS
	S10 8:42	Kosei Nakagawa	The University of Tokyo	$\alpha + 2n + 2n$ 3-body cluster structures and dineutron breaking in $^8\text{He}$
	S10 8:54	Yu Tang	Institute of Modern Physics, CAS	Beam Bunch Spacing Extension for Neutron Time-of-Flight Measurements at the LEAF Facility
	S10 9:06	Kenta Hagihara	University of Tsukuba	Effect of the Coulomb interaction on nuclear properties
	S10 9:18	Zixu Ma	Institute of Modern Physics, CAS	Low-Temperature Gas Target for Radioactive Ion Beam Experiments
	9:30-9:45 Tea break			
	S11 9:45	He Huang	Hokkaido University	Production of Technetium Radioisotope by Alpha Irradiation of $^{93}\text{Nb}$ Up to 50 Mev
	S11 9:57	Erick Gushiken	Tokyo Metropolitan University	Decay effect on scattering amplitude with complex and coupled-channel potentials
	S11 10:09	Muhammad Farhan Taseer	Institute of Modern Physics, CAS	Measurement of charge-dependent directed flow in STAR Beam Energy Scan (BES-II) Au+Au and U+U Collisions
	S11 10:21	Ibuki Terashima	Tokyo Metropolitan University	Internal structure of exotic hadrons by compositeness with coupled channel potential in relation with scattering observables
	S11 10:33	Yoonhak Nam	Institute of Science Tokyo	Machine learning optimization of neutron $^3\text{P}_2$ pairing gap through cooling curves with observational data of the Cassiopeia A neutron star
	10:45-11:00 Tea break			
	S12 11:00	Yongbeom Choi	Beihang University	Effects of recent nuclear mass model on r-process in NSMs
	S12 11:12	Hyukjin Kwon	Institute of Science Tokyo	Nuclear Matter Properties: From Saturation to Neutron Stars
	S12 11:24	Yo Nakamura	Institute of Science Tokyo	Self-consistent Calculation of Nuclear Pasta Using the Extended Thomas-Fermi Model
	S12 11:36	Takuma Nishibuchi	Tokyo Metropolitan University	Eigenstates in coupled-channel scattering amplitude and their effects on spectrum
	S12 11:48	Hiroki Kawashimo	The University of Tokyo / RIKEN	Discovering the most important temperatures of helium burning reactions in pair-instability supernova nucleosynthesis

## Session chairs and ZOOM

S1	Suzuki	鈴木大介	First session:  <a href="https://riken-jp.zoom.us/j/97877547166?pwd=0XSI0a7JrkBU0X6elUx8uf5GVOiNWk.1">https://riken-jp.zoom.us/j/97877547166?pwd=0XSI0a7JrkBU0X6elUx8uf5GVOiNWk.1</a>	Academic Lecture Hall, Floor 3, BLD 6
S2	Ong	王惠仁		
S3	Xu	徐晓栋		
S4	Wang	王世陶	Meeting ID: 978 7754 7166 Pass code: jqxH95hZ8f	Atomic Conference Room, Floor 6, BLD 5
S5	Terashima	寺島 知		
S6	Li	李建国		
S7	Ong	王惠仁	Second session:  <a href="https://u-tokyo-ac-jp.zoom.us/j/83641882271?pwd=BFelJqWs2ZRMA7ybs8E6ZZiwDOkg0SE.1">https://u-tokyo-ac-jp.zoom.us/j/83641882271?pwd=BFelJqWs2ZRMA7ybs8E6ZZiwDOkg0SE.1</a>	1006, Floor 10, BLD 5
S8	Dong	董建敏		
S9	Niu	牛一斐		
S10	Tang	唐晓东	Meeting ID: 836 4188 2271 Pass code: 148697	Academic Lecture Hall, Floor 3, BLD 6
S11	Zhao	赵行波		
S12	Miyagi	宮城隆之		

## Judges

<a href="#">Bo Zhou</a>	周波
Liumin Liu	刘柳明
Bingshui Gao	高丙水
Tetsuo Hyodo	兵藤哲雄
He Wang	王赫