

31st International Seminar on Interaction of Neutrons with Nuclei: Fundamental Interactions & Neutrons, Nuclear Structure, Ultracold Neutrons, Related Topics (ISINN-31)

Tuesday, 27 May 2025

Parallel Session 1: Fundamental interactions & symmetries in neutron induced reactions/Properties of compound states, nuclear structure/Intermediate and fast neutron induced reactions/Nuclear fission: (1) -

Room V6 (09:00 - 10:25)

-Conveners: Maxim Karetnikov

time	[id] title	presenter
09:00	[54] A New Scheme of Space-Based Measurement of Neutron Lifetime	ZHOU, Xiaopeng
09:20	[108] The Precise Measurement of Triton-Producing Three-Body Breakup Reaction of ^7Li Nucleus Induced by Fast Neutrons with the Multi-purpose Time Projection Chamber at CSNS	YI, Han
09:40	[84] Geant4 Simulation of the Energy Resolution Function for the CSNS Back-n Facility	TANG, Shengda
09:55	[3] Test of the T-Invariance with Polarization-Asymmetry Theorem in Mirror Reflection of the Slow Neutrons	SKOY, Vadim
10:10	[60] Faddeev-AGS Calculation of Neutron Induced Nuclear Reaction on Deuteron within Wave-Packet Continuum Discretization Approach	CHEN, Wendi

Parallel Session 1: Fundamental interactions & symmetries in neutron induced reactions/Properties of compound states, nuclear structure/Intermediate and fast neutron induced reactions/Nuclear fission: (2) -

Room V6 (10:50 - 12:25)

-Conveners: Baohua Sun

time	[id] title	presenter
10:50	[121] Measuring $B_{\text{nat}}(n, \text{tot})$ Reaction as an International Standard	DURÁN, Ignacio
11:10	[5] Application of Tagged Neutron Technology for Applied and Fundamental Nuclear Problems	KARETNIKOV, Maxim
11:25	[107] Research on Neutron Flux Measurement of CSNS Back-n	QIU, Yijia
11:40	[78] Primary Gamma Transitions in ^{176}Lu and ^{177}Lu after Resonance Neutron Capture	AHMADOV, Gadir
11:55	[743] Investigation of Properties of Low-Level p-Wave Neutron Resonances at the IREN Facility (FLNP, JINR, Dubna)	REBROVA, Natalia
12:10	[27] Measurements of the Gamma-Ray Emission Cross Sections and Angular Distributions from $(n, x\gamma)$ Reactions with 14.1 MeV Neutrons	GROZDANOV, Dimitar

Parallel Session 1: Fundamental interactions & symmetries in neutron induced reactions/Properties of compound states, nuclear structure/Intermediate and fast neutron induced reactions/Nuclear fission: (3) -

Room V6 (14:00 - 15:35)

time	[id] title	presenter
14:00	[94] Progress in the Measurement of the Neutron-Induced Fission Cross-Section at CSNS Back-n	CHEN, Yonghao
14:20	[46] Prompt Fission Neutron Spectra and Angular Distributions Measured in Narrow Windows of Fragment Masses and Total Kinetic Energies: A Puzzling Result and a Possible Explanation	CARJAN, Nicolae
14:35	[14] A New Method for Determining the Transverse Vibration Energy of Fission Prefragments	LYUBASHEVSKY, Dmitry
14:50	[22] Rotation Effect of a Fissile Nucleus (ROT Effect) for Prompt γ -Rays in Binary Fission of ^{235}U by Polarized Neutrons of Different Energies	BERIKOV, Daniyar
15:05	[119] Experimental Study on Differential Cross Section of $^{14}\text{N}(n, p)^{14}\text{C}$ Reaction	LUO, Qiuyue
15:20	[44] Double $(n-\gamma)$ and Triple $(n-n'\gamma)$ Angular Correlations in Neutron Inelastic Scattering on ^{12}C	FILONCHIK, Polina

Parallel Session 1: Fundamental interactions & symmetries in neutron induced reactions/Properties of compound states, nuclear structure/Intermediate and fast neutron induced reactions/Nuclear fission: (4) -
 Room V6 (16:05 - 17:10)

-Conveners: Yonghao Chen

time	[id] title	presenter
16:05	[49] Measurement of Neutron Total Cross Section of ^{169}Tm at Back-n	REN, Jie
16:25	[23] Cross Sections of the $^{148}\text{Sm}(n, \alpha)^{145}\text{Nd}$ Reaction in the 4.8—5.3 MeV Neutron Energy Region	CHUPRAKOV, Igor
16:40	[7] Measurement Thermal Neutron Capture Cross Section and Resonance Integral of $^{94}\text{Zr}(n, \gamma)^{95}\text{Zr}$ Reaction using Intense Resonance Neutron Source “IREN”	TRAN MINH NHAT, Le
16:55	[727] Recent Progress of Neural Networks in Nuclear Structures	JALILI, Amir