

ISINN-26

Xi'an , China , May 28th-June 1st, 2018



中子与核相互作用国际研讨会

26-th International Seminar

on Interaction of Neutrons with Nuclei:

«Fundamental Interactions & Neutrons, Nuclear Structure,

Ultracold Neutrons, Related Topics»

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FRANK LABORATORY OF NEUTRON PHYSICS, JINR, RUSSIA
THE STATE KEY LABORATORY OF INTENSE PULSED RADIATION SIMULATION
AND EFFECT, NINT, CHINA
SHAANXI KEY LABORATORY OF ADVANCED NUCLEAR ENERGY AND
TECHNOLOG, XJTU, CHINA

2nd circular

ISINN-26

The Frank Laboratory of Neutron Physics (FLNP) of the Joint Institute for Nuclear Research (JINR), the State Key Laboratory of Intense Pulsed Radiation Simulation and Effect (SKLIPRSE) of Northwest Institute of Nuclear Technology (NINT), and Shaanxi Key Laboratory of Advanced Nuclear Energy and Technology (SKLANT) of Xi'an Jiaotong University (XJTU) are co-organizing the 26-th International Seminar on Interaction of Neutrons with Nuclei: Fundamental Interactions & Neutrons, Nuclear Structure, Ultracold Neutrons, Related Topics (ISINN-26).

ISINN-26 continues the tradition of the FLNP annual workshops and seminars in the field. It will be held from May 28th to June 1st, 2018 in Xi'an, capital city of Shaanxi Province of China. The expected number of participants is about 150.

PROGRAM PROFILE:

- Fundamental properties of the neutron;
- Fundamental interactions & symmetries in neutron induced reactions;
- Properties of compound states, nuclear structure;
- Intermediate and fast neutron induced reactions;
- Gamma-decay of excited states;
- Nuclear fission;
- Neutron data for applied and scientific purposes;
- Methodical aspects;
- Physics of ultra-cold neutrons (UCN);
- Nuclear and related analytical techniques in the environmental and material sciences;
- ADS studies;
- Neutron detection
- Neutron radiation effect
- Nuclear reactors
- Radiation transportation and simulation

The Seminar language is ENGLISH.

REGISTRATION FEE

The **REGISTRATION FEE** of ¥3000 RMB for participants and ¥2200 RMB for accompanying persons includes lunch, dinner, tea break, reception banquet, and a copy of Seminar proceedings. The registration fee is due to payment IN CASH or CARD at the registration or on line.

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Agenda

Monday (May. 28)	09:00-12:00	Registration
	12:00-14:00	Lunch
	14:00-18:00	Registration
	18:00-20:00	Welcome Banquet
Tuesday (May. 29)	08:40-09:00	Opening Speech
	09:00-10:00	Invited Talks: T1-T2
	10:00-10:30	Coffee & Photo Break
	10:30-12:00	Invited Talks: T3-T5
	12:00-14:00	Lunch Break
	14:00-16:00	Invited Talks: T6-T9
	16:00-18:30	Free Discussion
	18:30-19:30	Dinner
Wednesday (May. 30)	08:30-10:00	Invited Talks: T10-T12
	10:00-10:30	Coffee Break
	10:30-12:00	Invited Talks: T13-T15
	12:00-14:00	Lunch Break
	14:00-15:50	Invited Talks: T16-T19
	15:50-16:20	Coffee Break
	16:20-18:00	Invited Talks: T20-T23
	18:00-19:30	Dinner
Thursday (May. 31)	08:30-09:50	Oral Presentations: A1-A4、B1-B4
	09:50-10:20	Coffee Break
	10:20-12:00	Oral Presentations: A5-A9、B5-B9
	12:00-14:00	Lunch Break
	14:00-17:00	Poster Session
	17:00-18:30	Dinner
	18:30-20:00	Going to Huaqing Palace by bus
	20:00-22:00	Free Activities
Friday (June. 01)	08:30-09:50	Oral Presentations: A10-A13、B10-B12
	09:50-10:20	Coffee Break
	10:20-12:00	Oral Presentations: A14-A18、B13-B17
	12:00-14:00	Lunch Break
	14:00-15:40	Oral Presentations: A19-A23、B18-B22
	15:40-16:00	Coffee Break
	16:00-17:00	Oral Presentations: A24-A26、B23-B25
	17:00-19:00	Farewell Banquet

Date: A.M. 29th May. Tuesday		Chair:
Place: The Second Floor, Meeting Room 205		Prof. Wang Sheng
Time	Events	Addressor
08:40-09:00	<i>Opening Speech</i>	Prof. Hei Dongwei
09:00-09:30	T1: Nuclear Fission Induced by Resonance Neutrons—Experimental and Theoretical Aspects	Prof. Walter Furman
09:30-10:00	T2: Nuclear Planetology	Prof. V. N. Shvetsov
10:00-10:30	<i>Coffee & Photo Break</i>	Dr. Weng Xiufeng & Dr. Zhao Chen
10:30-11:00	T3: Status of CSNS and Back-n White Neutron Facility	Prof. Tang Jingyu
11:00-11:30	T4: The n_TOF Facility at CERN	Prof. Giuseppe Tagliente
11:30-12:00	T5: Neutron Scattering Progress of CMRR	Prof. Gong Jian
12:00-14:00	<i>Lunch Break</i>	
Date: P.M. 29th May. Tuesday		Chair:
Place: The Second Floor, Meeting Room 205		Prof. Tang Jingyu
14:00-14:30	T6: Transportable Accelerator-driven Neutron Source Development for Nondestructive Testing	Prof. Wang Sheng
14:30-15:00	T7: Fundamental Neutron Physics at the ILL	Prof. Peter Geltenbort
15:00-15:30	T8: Progress of Neutron Reaction Data Measurement at CIAE	Prof. Ruan Xichao
15:30-16:00	T9: Irradiation Testing and Simulation of Neutron-induced Single Event Effects	Prof. Chen Wei
16:00-18:30	<i>Free Discussion</i>	Dr. Weng Xiufeng & Dr. Zhao Chen
18:30-19:30	<i>Dinner</i>	

Date: A.M. 30th May. Wednesday		Chair:
Place: The Second Floor, Meeting Room 205		Prof. V. N. Shvetsov
Time	Events	Addressor
08:30-09:00	T10: Search for Spatial Parity Violation Effects in Reactions of Cold Polarized Neutrons with Lightest Nuclei	Prof. Pavel Sedyshev
09:00-09:30	T11: Development for Neutron Diagnostics for EAST Deuterium Operations	Prof. Tieshuan Fan
09:30-10:00	T12: Neutron Activation Analysis Applications at the IBR-2 Reactor	Prof. Otilia Culicov
10:00-10:30	<i>Coffee Break</i>	
10:30-11:00	T13: Development of Neutron Detectors for the Spectrometers of the IBR-2 Reactor	Prof. Sergey Kulikov
11:00-11:30	T14: Cold Neutron Source for IBR-2 Reactor on Pelletized Mezetilene Beads	Dr. Konstantin Mukhin
11:30-12:00	T15: Tagged Neutron Method as a Tool for Nuclear Reaction Studies and Elemental Analysis – the TANGRA Project	Prof. Yuri Kopatch
12:00-14:00	<i>Lunch Break</i>	
Date: P.M. 30th May. Wednesday		Chair:
Place: The Second Floor, Meeting Room 205		Prof. Ruan Xichao
14:00-14:30	T16: RIKEN Accelerator-driven Neutron Source, RANS and Neutron Application	Prof. Yoshie OTAKE
14:30-15:00	T17: Group Delay Time and Neutron Optic	Prof. Alexander Frank
15:00-15:25	T18: Search for an Electric Dipole Moment of the Neutron Using Superfluid Helium	Prof. Robert Golub
15:25-15:50	T19: Development of a High-Precision Nuclear Magnetic Resonance Apparatus for Use with Polarized ³ He and Ultracold Neutrons	Prof. Ekaterina Korobkina
15:50-16:10	<i>Coffee Break</i>	
16:10-16:35	T20: Experiment on Direct Observation of Goos-Hänchen Effect with Neutrons	Dr. German Kulin
16:35-17:00	T21: Manifestations of Pear-shaped Clusters in Collinear Cluster Tri-partition (CCT)	Prof. Yuri Pyatkov
17:00-17:25	T22: Detailed Analysis of the Data Indicating True Quaternary Fission of Low Excited Actinides	Prof. Dmitry Kamanin
17:25-17:50	T23: Co-axial Fission into Three Comparable Fragments	Prof. Fedor Karpeshin
17:50-18:15	T24: Investigation of Heavy Nuclei Fission Events Having Anomalously High TKE Values	Prof. Vitaly Khryachkov
18:15-19:30	<i>Dinner</i>	

Date: A.M. 31st May. Thursday		Chair:
Place: Session A, the Second Floor, Meeting Room 201		Prof. Egor Lychagin
Time	Events	Addressor
08:30-08:50	A1: Resonance Interference as a Common Origin of Pseudo-T-noninvariant ROT Effect in Fission and Other Neutron-induced Reactions	Prof. Iurii Chuvilskii
08:50-09:10	A2: Measurement of T-odd Effects in the Neutron Induced Fission of ^{235}U at a Hot Source of Polarized Resonance Neutrons	Dr. Daniyar Berikov
09:10-09:30	A3: Acceleration Induced Neutron Emission from Heavy Nuclei	Prof. Nicolae Carjan
09:30-09:50	A4: Search of Scission Neutrons in the Measurements of Angular and Energy Distributions of Fission Neutrons for ^{233}U , ^{235}U , ^{239}Pu and ^{252}Cf	Prof. Aleksander Vorobev
09:50-10:20	Coffee Break	
10:20-10:40	A5: The Wall Effect of the Sample Position Well for Fission Fragments	Prof. Huaiyong Bai
10:40-11:00	A6: Angular Distributions and Anisotropy of Fission Fragments from Neutron-induced Fission of ^{232}Th , ^{233}U , ^{235}U , ^{238}U , ^{239}Pu , $^{\text{nat}}\text{Pb}$ and ^{209}Bi	Prof. Alexey GagarSKIY
11:00-11:20	A7: Prompt fission neutron investigation in $^{235}\text{U}(\text{n}_{\text{th}},\text{f})$ and $^{252}\text{Cf}(\text{sf})$ reactions	Prof. Shakir Zeynalov
11:20-11:40	A8: Study of Five-dimensional Potential-energy Surfaces for Actinide Isotopes in the Double Center Oscillator Model	Dr. Zhiming Wang
11:40-12:00	A9: Cross Sections of the $^{144}\text{Sm}(\text{n},\alpha)^{141}\text{Nd}$ Reaction at 5.5 and 6.5 MeV	Prof. Yury Gledenov
12:00-14:00	Lunch Break	
Date: P.M. 31st May. Thursday		Organization
Place: Session A, the Second Floor, Meeting Room 201		Committee
14:00-17:00	POSTER SESSION	Related Authors
17:00-18:30	Dinner	
18:30-20:00	Going to Huaqing Palace by bus	
20:00-22:00	Free Activities: Watching historical dance- “The Song of Everlasting Sorrow”	Participants at their own expenses

Date: A.M. 31stMay. Thursday Place: Session B, the Second Floor, Meeting Room 202		Chair: Prof. Pavel Sedyshev
Time	Events	Addressor
08:30-08:50	B1: Experiment Onboard the Curiosity Rover Modelling of the Neutron Sensors Response	Prof. Valerii Shvetsov
08:50-09:10	B2: Neutron Reflectometry at CMRR and its Applications	Prof. ChaoQiang Huang
09:10-09:30	B3: Theoretical and Experimental SANS Study of Colloidal Systems from Depletion Attraction to Bridge Attraction	Dr. Jie Chen
09:30-09:50	B4: Determination of the ²³² Th Nucleus Number Using Small Solid Angle Method	Prof. Haoyu Jiang
09:50-10:20	<i>Coffee Break</i>	
10:20-10:40	B5: Small-Angle Neutron Scattering at CMRR and its Recent Applications in the Investigations of Polymer Nanocomposites	Prof. Dong Liu
10:40-11:00	B6: Design and Implementation of Matryoshka- type Neutron Spectrometer	Prof. Ning Lv
11:00-11:20	B7: Nano-structured Reflectors for Slow Neutrons	Prof. Egor Lychagin
11:20-11:40	B8: The Development of Multi-Facets Fast Neutron Spectrum Detector	Prof. Wenshou zhang
11:40-12:00	B9: The Effect of Fuel Magnetization on Medium Yield	Dr. Shijia Chen
12:00-14:00	<i>Lunch Break</i>	
Date: A.M. 31stMay. Thursday Place: Session B, the Second Floor, Meeting Room 202		Organization Committee
14:00-17:00	<i>POSTER SESSION</i>	Related Authors
17:00-18:30	<i>Dinner</i>	
18:30-20:00	Going to Huaqing Place by bus	
20:00-22:00	Free Activities: Watching historical dance- “The Song of Everlasting Sorrow”	Participants at their own expenses

Date: A.M. 1stJune. Friday		Chair:
Place: Session A, the Second Floor, Meeting Room 201		Prof. Yuri Kopatch
Time	Events	Addressor
08:30-08:50	A10: Monte Carlo Simulation of Photonuclear $^{13}\text{C}(\gamma, p)^{12}\text{B}$ Activation Detecting of Carbon	Prof. Yuri Pokotilovski (1)
08:50-09:10	A11: Structure of Beta-decay Strength Function $S_{-}(E)$ in Halo Nuclei	Dr. Igor Izosimov
09:10-09:30	A12: Ab Initio Calculation of Neutron Resonances of Light Nuclei	Dr. Dmitry Rodkin
09:30-09:50	A13: Ab Initio Calculation of the Thermal Neutron Scattering Cross Sections of Uranium Mononitride	Dr. Lipeng Wang
09:50-10:20	Coffee Break	
10:20-10:40	A14: Precise Measurements of n- γ Angular Correlations in Inelastic Scattering of 14MeV Neutrons on Nuclei	Dr. Nikita Fedorov
10:40-11:00	A15: Microscopic Calculation of the Total Cross Section for the $^6\text{Li}(n, \alpha)^3\text{H}$ Transfer Reaction	Prof. Alexander Solovyev
11:00-11:20	A16: Non Statistical and Asymmetry Effects in Fast Neutrons Reactions	Dr. Ioan Alexandru Oprea
11:20-11:40	A17: Experimental Search for the Bound State Singlet Deuteron in the Radiative n-p Capture	Prof. Yuri Pokotilovski (2)
11:40-12:00	A18: Oscillating Sample for the Experiment of Investigation of Neutron Wave Interaction with Matter, Moving with Extreme Acceleration.	Dr. Semyon Goryunov
12:00-14:00	Lunch Break	
Date: P.M. 1stJune. Friday		Chair:
Place: Session A, the Second Floor, Meeting Room 201		Prof. Tieshuan Fan
14:00-14:20	A19: TOF Method Measurements at INR Spallation Neutron Source RADEX	Dr. Denis Khliustin
14:20-14:40	A20: Measurement of the Neutron Flux of the CSNS Back-n Beam Line	Dr. Yonghao CHEN
14:40-15:00	A21: Program of Fission Dynamic in CSNS	Dr. Taofeng Wang
15:00-15:20	A22: Preliminary Study of White Neutron Beamlines at the CSNS Second Target Station	Dr. Liying Zhang
15:20-15:40	A23: Preliminary Experimental Study of Back-n White Neutron Characterization at CSNS	Prof. Jie Bao
15:40-16:00	Coffee Break	
16:00-16:20	A24: A New Approach to Search for Neutron-antineutron Oscillations in a Neutron Guide	Prof. Valery Nesvizhevsky
16:20-16:40	A25: Irradiation Facility of the IBR-2 Reactor as a Multi-operated Instrument for Researches of Materials of TOKAMAKS, Colliders, Detectors and Neutron Guides	Dr. Maksim Bulavin
16:40-17:00	A26: Validation of Monte Carlo Neutron Physics Codes for Fully Ceramic Microencapsulated PWR Fuel Lattice	Dr. Muhammad Qasim Awan

Date: A.M. 1stJune. Friday		Chair:
Place: Session B, the Second Floor, Meeting Room 202		Dr. Yigang YANG
Time	Events	Addressor
08:30-09:00	B10: The Influence of Mineral Fertilizer on the North-Eastern Romania Permanent Grassland as Investigated by Epithermal Neutron Activation Analysis	Dr. Octavian-Gheorghe Dului
09:00-09:25	B11: Evaluation of Anthropogenic and Geogenic Impacts on Marine Sediments of Egyptian Sector of the Red Sea by NAA and ICP-MS	Dr. Wael Ged
09:25-09:50	B12: Study of Major and Trace Elements by the Moss Biomonitoring Technique in Georgia	Prof. Omari Chaligava
09:50-10:20	Coffee Break	
10:20-10:40	B13: The Determination of Arsenic Species in Drinking Water Using NAA-k0 Standardization	Prof. Adrian Florinel Bucsa
10:40-11:00	B14: Biosorption of Lead Ions by Cyanobacteria Spirulina Platensis_ Kinetics, Equilibrium and Thermodynamic Study	Dr. Nikita Yushin
11:00-11:20	B15: Result of Investigation of the Isotope Composition of Archaeological Objects by Neutron Resonance Capture Analysis	Dr. Nina Bazhazhina
11:20-11:40	B16: The Use of Resonance Neutron Method for Searching of Palladium of the Proton Rocket Engine	Dr. Dimitar Grozdanov
11:40-12:00	B17: Optimizing the Shielding Structure in Neutron Logging Instrument	Dr. Lei Song
12:00-14:00	Lunch Break	
Date: P.M. 1stJune. Friday		Chair:
Place: Session B, the Second Floor, Meeting Room 202		Dr. Yonghao Chen
14:00-14:20	B18: The Measurements and Applications of Photoneutrons Induced by an Electron Linear Accelerator	Dr. Yigang YANG
14:20-14:40	B19: Development of HINEG and Its Experimental Campaigns	Dr. Zhigang WANG
14:40-15:00	B20: A Single-pixel Gamma Imaging System	Dr. Dongming Wang
15:00-15:20	B21: Modeling and Simulation of Activated Corrosion Products Behavior under Design-based Variation of Neutron Flux Rate in AP-1000	Dr. Fiaz Mahmood
15:20-15:40	B22: A Cs ₂ LiYCl ₆ :Ce and SiPM Based Advanced Detector for Neutron and Gamma Hybrid Field Detection	Dr. Zhonghai Wang
15:40-16:00	Coffee Break	
16:00-16:20	B23: Study on the Uncertainty of Neutron Angle in Associated Particle Imaging	Dr. Shanpeng Zhao
16:20-16:40	B24: Experimental Investigations on Pulsed-Neutron-Induced Single Event Upset Bursts in Commercial ECC SRAMs	Dr. Chao Qi
16:40-17:00	B25: Simulation of Neutron-Induced Degradation of Lateral PNP Bipolar Transistor Using a Defect-Based TCAD Model	Mrs. Chenhui Wang

Posters

1	Zhu Yangni, Tu Jing, Zhang Xinyi, Guo Hewei, Zhangsun Yonggang Radiation process study on conversion of ^{232}Th - ^{233}U at thermal Reactors
2	Guo hewei, Zhu yangni, Zhang xinyi, Zhangsun Yonggang Calculation of reactor physical parameters based on ^{233}U nuclear fuel
3	Liangping Wang, Peitian Cong, Xinjun Zhang, Jinhai Zhang, Mo Li Estimation of the neutron generation from gas puff z-pinch on Qiangguang Facility
4	Xiaoren Yu, Da Li, Shoujie Zhang, Yan Ma, Xiaojing Song Study on the parameters of epithermal neutron field for BNCT
5	Xiaoren Yu Measurement of gamma dose rate in the mixed field of Xi'an pulsed reactor irradiated by using double ionization chamber
6	Qiang Wang, Xingcai Guan, Kaihong Fang, Cai-feng Lai Measurement of fission cross sections of $^{232}\text{Th}(n,f)^{84m+g}\text{Br}$, $^{232}\text{Th}(n,f)^{87}\text{Kr}$ and $^{232}\text{Th}(n,f)^{92}\text{Sr}$ reactions induced by 14 MeV neutrons
7	B.Batchimeg, G.Khuukhenkhuu, M.Odsuren, J.Munkhsaikhan and Ch.Saikhanbayar, Yu.M.Gledenov, E.Sansarbayar and M.V.Sedysheva, Guohui Zhang Knock-on mechanism and alpha-cluster formation probability in (n,α) reaction
8	G.B. Ryazantsev, I.N. Beckman, G.K. Lavrenchenko, I.M. Buntseva and T.B. Lavrik Development of the concept of nuclear exchange beta -forces. on the possibility of obtaining a neutron substance in laboratory conditions
9	M. Sukhovej, L. V. Mistyna, D. C. Vu, N. Jovancevic and D. Knezevic Hidden parameters of cascade gamma-decay
10	D.C. Vu, A.M. Sukhovej, L.V. Mistyna, X.H. Nguyen, D.K. Pham, N.A. Nguyen, H.T. Ho A reliability of the results of a study of the nuclear superfluidity and hidden parameters of the gamma decay of the compound state
11	A. I. Oprea, C. Oprea, P.V. Sedyshev, Yu. M. Gledenov Parity violation effects in capture of slow neutrons by ^{204}Pb
12	C. Hramco Naphthalene mono-crystals growth for proton spin polarization target
13	N. Bazhzhina, F. Bečvář, M. Krτίčka, S. Valenta, W. Furman, A. Couture What is possible to find out about the dipole photon strength function from study of resonance neutron radiative capture by ^{195}Pt nucleus measured in DANCE experiment
14	Khafizov R. U., Kolesnikov I.A., Nikolenko M.V., Tarnovitsky S.A., Tolokonnikov S Torokhov V.D., Trifonov G.M., Solovei V.A., Kolkhidashvili M.R., Konorov I.V. The ion background in the radiative neutron decay experiment
15	Yicheng Yi Energy response of a $\text{LaBr}_3:\text{Ce}$ scintillation detector to pulse gamma and neutron radiation
16	X. M. Jin, Y. Liu, S. C. Yang, C. H. Wang, X. Y. Bai, W. Chen Experimental study of synergistic effects of neutron and gamma ray irradiation on linear regulator
17	X. Y. Bai, G. Z. Wang, X. M. Jin, C. Chao, Y. Liu, and S. C. Yang A new method for error estimation in the damage constant of bipolar transistors : transformation of the error in independent variable to the one in dependent variable

18	L. J. Li, S. C. Yang, C. Qi, Y. Liu, X. M. Jin, C. H. Wang The influence of power chip's neutron radiation effect on nano-meter SRAM's data status
19	S. C. Yang, C. Qi, Y. Liu, X. Q. Guo, X. M. Jin, W. Chen, C. H. Wang Review of reactor neutron induced single event effects in semiconductor devices
20	L. Y. Liu, P. Zhang, J. F. Zhang, P. Jin, S. Bai, X. Z. Cao, B. Y. Wang, X. P. Ouyang Defect characterization of proton irradiated 4H-SiC PIN diode detector by using positron annihilation spectroscopy
21	H. T. Chen, F. Zhao and K. Zhang Development of movable neutron generator in CIAE
22	G. Y. Luan, J. Bao, X. C. Ruan, J. Ren, and K. Zhang Design of energy spectrum and flux measurement system for CSNS Back-n
23	SU Chun-lei, JIANG Xin-biao, ZHANG Wen-shou, LI Da, YU Qing-yu, WU Zeng-peng Pulse neutron flux measurement based on diamond detector
24	Mingfei Yan, Huasi Hu, Guang Hu, Tao Zhang Monte Carlo Simulation on thermal neutron CT of two phase flow and image reconstruction
25	Lin Zou, and Yu-Qing Zheng Unraveling the solution-state supramolecular structures of organic optoelectronics by SANS
26	W. J. Ni, H. T. Jing, L. Y. Zhang, L. Ou Possible study of atmospheric-like neutron experimental terminal at CSNS
27	Yi Gong, Xingcai Guan, Isao Murata and Tieshan Wang An epithermal neutron flux monitor for BNCT
28	B. H. Duan, T. S. Wang, C. Heintze, F. Bergner and K. Vogel Self-ion irradiation for neutron radiation damage studies in oxide dispersion strengthened alloys
29	Y. Liu, C. H. He, W. Chen, G. Z. Wang, J. L. Li, S. C. Yang Transient ionizing dose effect on neutron irradiated SRAMs
30	Yao Cai, Huasi Hu, Ziheng Pan, Dongming Wang Selection of calculation models in shielding material optimization
31	B. A. Abdurakhimov, M. Yu. Tashmetov Effects of absorption dose on sic nanopowder sizes and structural parameters
32	An Heng, Xue Yuxiong, Yang Shengsheng, Zhuang kai, Zeng Fanjian, Qin Xiubo Simulation and optimization for space neutron detector with gradient-sized scintillation fibers
33	Ruirui Fan The light charged particle detector array at Back-n facility
34	Wei Jiang The silicon-detector array in Back-n white neutron facility
35	Zinicovscaia I., Pavlov S. S., Frontasyeva M. V., Ivlieva A. L., Petrinskaya E. N., Rogatkin D. A., Demin V. A. Study of silver nanoparticles accumulation by mice using neutron activation analysis
36	Yulia Aleksiyenak, O. V. Ignatenko, A. L. Zheludkevich, A. V. Konovalova, V. A. Komar, M. V. Frontasyeva Determination of the impurity composition of copper disulphide obtained under high pressure

37	<u>YuliaAleksiavenak, Marina Frontasveva</u> Atmospheric deposition of trace elements biomonitoring study at the territory of the republic of Belarus
38	<u>V. V. Kobets, P. V. Sedyshev, V. N. Shvetsov, A. P. Sumbaev, Sh. Zeinalov</u> Neutron yield and flux density of the IREN facility for different neutron production targets
39	<u>S. T. Mazhen, S. B. Borzakov, P. V. Sedyshev, N. V. Bazhazhina, A. M. Ergashov, Yu. D. Mareev, V. N. Shvetsov, I. A. Saprykina</u> Application of neutron resonance capture analysis for determination of isotope composition of fibula from Podbolotyevsky burial ground (10th century AD)
40	<u>SONG Zhao-hui, YI Yi-cheng, LU Yi, ZHANG Xian-peng</u> The feasibility study of CSNS Back-n using for temperature measurement by resonance neutron
41	<u>YANG Hailiang</u> Preliminary research results for intense pulsed neutron generation on pulsed power driver
42	<u>Z. J. Wang, Y. Y. Xue, R. Xu, H. Ning, J. K. Sheng, Z. B. Yao, W. Y. Ma, B. P. He, G. T. Dong</u> Experiment research of radiation effects on the PPD CMOS image sensors induced by reactor neutron beams
43	<u>Y. Y. Xue, Z. J. Wang, H. Ning, R. Xu, J. K. Sheng, Z. B. Yao, B. P. He, W. Y. Ma, G. T. Dong</u> Study of neutron radiation effects on the dark signal of charge-coupled device based on GEANT4 simulations
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