

# ISINN-26

Xi'an , China , May 28<sup>th</sup>-June 1<sup>st</sup>, 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»

<http://www.isinn26.cn>  
<http://isinn.jinr.ru>

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

2<sup>nd</sup> 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 28<sup>th</sup> to June 1<sup>st</sup>, 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.

## **CONTACT ADDRESSES:**

### **Scientific secretaries**

#### **Mengtong QIU**

Northwest Institute of Nuclear Technology  
Mail Box 69-1, Xi'an, 710024, Shaanxi, China  
Fax: (+86-29)83366333  
E-mail: [isinn26@163.com](mailto:isinn26@163.com)

#### **Sheng WANG**

School of Nuclear Science and Technology  
Xi'an Jiaotong University  
West Xianning Road 28, Beilin District, 710049, Xi'an, Shaanxi, China  
Tel.: (+86-29)82668648  
Fax: (+86-29) 82667802  
E-mail: shengwang@xjtu.edu.cn

#### **Egor LYCHAGIN**

Frank Laboratory of Neutron Physics  
Joint Institute for Nuclear Research  
141980 Dubna Moscow Region Russia  
Tel.: (+7-496-21)62428  
Fax: (+7-496-21)65429  
Telex: 911621 DUBNA SU  
E-mail [isinn@jinr.ru](mailto:isinn@jinr.ru)  
www: <http://isinn.jinr.ru>

### **Visas & transport**

#### **Xiufeng WENG**

Northwest Institute of Nuclear Technology  
Mail Box 69-1, Xi'an, 710024, Shaanxi, China  
Tel.: (+86)13572425701  
Fax: (+86-29)83366333  
E-mail: [nandswk@163.com](mailto:nandswk@163.com)

### **Publishing**

#### **Zhaohui SONG**

Northwest Institute of Nuclear Technology  
Mail Box 69-1, Xi'an, 710024, Shaanxi, China  
Fax: (+86-29)83366333  
E-mail: [isinn26@163.com](mailto:isinn26@163.com)

## Agenda

<b>Monday (May. 28)</b>	09:00-12:00	Registration
	12:00-14:00	Lunch
	14:00-18:00	Registration
	18:00-20:00	Welcome Banquet
<b>Tuesday (May. 29)</b>	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
<b>Wednesday (May. 30)</b>	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
<b>Thursday (May. 31)</b>	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
<b>Friday (June. 01)</b>	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

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

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

<b>Date: A.M. 31<sup>st</sup> May. Thursday</b>		<b>Chair:</b>
<b>Place: Session A, the Second Floor, Meeting Room 201</b>		<b>Prof. Egor Lychagin</b>
<b>Time</b>	<b>Events</b>	<b>Addressor</b>
08:30-08:50	<b>A1:</b> 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	<b>A2:</b> Measurement of T-odd Effects in the Neutron Induced Fission of $^{235}\text{U}$ at a Hot Source of Polarized Resonance Neutrons	Dr. Daniyar Berikov
09:10-09:30	<b>A3:</b> Acceleration Induced Neutron Emission from Heavy Nuclei	Prof. Nicolae Carjan
09:30-09:50	<b>A4:</b> Search of Scission Neutrons in the Measurements of Angular and Energy Distributions of Fission Neutrons for $^{233}\text{U}$ , $^{235}\text{U}$ , $^{239}\text{Pu}$ and $^{252}\text{Cf}$	Prof. Aleksander Vorobev
09:50-10:20	<b>Coffee Break</b>	
10:20-10:40	<b>A5:</b> Determination of Relative Yield Ratios of $^{85\text{m}}\text{Kr}$ , $^{87}\text{Kr}$ and $^{88}\text{Kr}$ from Thermal-neutron-induced Fission of $^{239}\text{Pu}$	Dr. Yu Gong-shuo
10:40-11:00	<b>A6:</b> Angular Distributions and Anisotropy of Fission Fragments from Neutron-induced Fission of $^{232}\text{Th}$ , $^{233}\text{U}$ , $^{235}\text{U}$ , $^{238}\text{U}$ , $^{239}\text{Pu}$ , $^{\text{nat}}\text{Pb}$ and $^{209}\text{Bi}$	Prof. Alexey Gagarskiy
11:00-11:20	<b>A7:</b> 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	<b>A8:</b> Study of Five-dimensional Potential-energy Surfaces for Actinide Isotopes in the Double Center Oscillator Model	Dr. Zhiming Wang
11:40-12:00	<b>A9:</b> 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	<b>Lunch Break</b>	
<b>Date: P.M. 31<sup>st</sup> May. Thursday</b>		<b>Organization</b>
<b>Place: Session A, the Second Floor, Meeting Room 201</b>		<b>Committee</b>
14:00-17:00	<b>POSTER SESSION</b>	Related Authors
17:00-18:30	<b>Dinner</b>	
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

<b>Date: A.M. 31<sup>st</sup> May. Thursday</b> <b>Place: <a href="#">Session B</a>, the Second Floor, Meeting Room 202</b>		<b>Chair:</b> <b>Prof. Pavel Sedyshev</b>
<b>Time</b>	<b>Events</b>	<b>Addressor</b>
08:30-08:50	<b>B1:</b> Experiment Onboard the Curiosity Rover Modelling of the Neutron Sensors Response	Prof. Valerii Shvetsov
08:50-09:10	<b>B2:</b> Neutron Reflectometry at CMRR and its Applications	Prof. ChaoQiang Huang
09:10-09:30	<b>B3:</b> Theoretical and Experimental SANS Study of Colloidal Systems from Depletion Attraction to Bridge Attraction	Dr. Jie Chen
09:30-09:50	<b>B4:</b> Feasibility Analysis of Unfolding Fast Neutron Spectrum by Using (n, n' $\gamma$ ) Reactions	Dr. Li Xuesong
09:50-10:20	<b>Coffee Break</b>	
10:20-10:40	<b>B5:</b> Small-Angle Neutron Scattering at CMRR and its Recent Applications in the Investigations of Polymer Nanocomposites	Prof. Dong Liu
10:40-11:00	<b>B6:</b> Design and Implementation of Matryoshka- type Neutron Spectrometer	Prof. Ning Lv
11:00-11:20	<b>B7:</b> Nano-structured Reflectors for Slow Neutrons	Prof. Egor Lychagin
11:20-11:40	<b>B8:</b> The Development of Multi-Facets Fast Neutron Spectrum Detector	Prof. Wenshou Zhang
11:40-12:00	<b>B9:</b> The Effect of Fuel Magnetization on Medium Yield	Dr. Shijia Chen
12:00-14:00	<b>Lunch Break</b>	
<b>Date: A.M. 31<sup>st</sup> May. Thursday</b> <b>Place: <a href="#">Session B</a>, the Second Floor, Meeting Room 202</b>		<b>Organization Committee</b>
14:00-17:00	<b>POSTER SESSION</b>	Related Authors
17:00-18:30	<b>Dinner</b>	
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



<b>Date: A.M. 1<sup>st</sup> June. Friday</b>		<b>Chair:</b>
<b>Place: Session A, the Second Floor, Meeting Room 201</b>		<b>Prof. Yuri Kopatch</b>
<b>Time</b>	<b>Events</b>	<b>Addressor</b>
08:30-08:50	<b>A10:</b> 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	<b>A11:</b> Structure of Beta-decay Strength Function $S_{-}(E)$ in Halo Nuclei	Dr. Igor Izosimov
09:10-09:30	<b>A12:</b> Ab Initio Calculation of Neutron Resonances of Light Nuclei	Dr. Dmitry Rodkin
09:30-09:50	<b>A13:</b> Ab Initio Calculation of the Thermal Neutron Scattering Cross Sections of Uranium Mononitride	Dr. Lipeng Wang
09:50-10:20	<b>Coffee Break</b>	
10:20-10:40	<b>A14:</b> Precise Measurements of n- $\gamma$ Angular Correlations in Inelastic Scattering of 14MeV Neutrons on Nuclei	Dr. Nikita Fedorov
10:40-11:00	<b>A15:</b> 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	<b>A16:</b> Experimental Search for the Bound State Singlet Deuteron in the Radiative n-p Capture	Prof. Yuri Pokotilovski (2)
11:20-11:40	<b>A17:</b> Oscillating Sample for the Experiment of Investigation of Neutron Wave Interaction with Matter, Moving with Extreme Acceleration.	Dr. Semyon Goryunov
11:40-12:00	<b>A18:</b> IREN Project Status	Eugenii Golubkov
12:00-14:00	<b>Lunch Break</b>	
<b>Date: P.M. 1<sup>st</sup> June. Friday</b>		<b>Chair:</b>
<b>Place: Session A, the Second Floor, Meeting Room 201</b>		<b>Prof. Tieshuan Fan</b>
14:00-14:20	<b>A19:</b> TOF Method Measurements at INR Spallation Neutron Source RADEX	Dr. Denis Khliustin
14:20-14:40	<b>A20:</b> Measurement of the Neutron Flux of the CSNS Back-n Beam Line	Dr. Yonghao CHEN
14:40-15:00	<b>A21:</b> Program of Fission Dynamic in CSNS	Dr. Taofeng Wang
15:00-15:20	<b>A22:</b> Preliminary Study of White Neutron Beamlines at the CSNS Second Target Station	Dr. Liying Zhang
15:20-15:40	<b>A23:</b> Preliminary Experimental Study of Back-n White Neutron Characterization at CSNS	Prof. Jie Bao
15:40-16:00	<b>Coffee Break</b>	
16:00-16:20	<b>A24:</b> A New Approach to Search for Neutron-antineutron Oscillations in a Neutron Guide	Prof. Valery Nesvizhevsky
16:20-16:40	<b>A25:</b> 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	<b>A26:</b> Validation of Monte Carlo Neutron Physics Codes for Fully Ceramic Microencapsulated PWR Fuel Lattice	Dr. Muhammad Qasim Awan

<b>Date: A.M. 1<sup>st</sup> June. Friday</b>		<b>Chair:</b>
<b>Place: Session B, the Second Floor, Meeting Room 202</b>		<b>Dr. Yigang YANG</b>
<b>Time</b>	<b>Events</b>	<b>Addressor</b>
08:30-09:00	<b>B10:</b> 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	<b>B11:</b> 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	<b>B12:</b> Study of Major and Trace Elements by the Moss Biomonitoring Technique in Georgia	Prof. Omari Chaligava
09:50-10:20	<i>Coffee Break</i>	
10:20-10:40	<b>B13:</b> The Determination of Arsenic Species in Drinking Water Using NAA-k0 Standardization	Prof. Adrian Florinel Bucsa
10:40-11:00	<b>B14:</b> Biosorption of Lead Ions by Cyanobacteria Spirulina Platensis_ Kinetics, Equilibrium and Thermodynamic Study	Dr. Nikita Yushin
11:00-11:20	<b>B15:</b> Result of Investigation of the Isotope Composition of Archaeological Objects by Neutron Resonance Capture Analysis	Dr. Nina Bazhazhina
11:20-11:40	<b>B16:</b> The Use of Resonance Neutron Method for Searching of Palladium of the Proton Rocket Engine	Dr. Dimitar Grozdanov
11:40-12:00	<b>B17:</b> The Measurements and Applications of Photoneutrons Induced by an Electron Linear Accelerator	Dr. Yigang YANG
12:00-14:00	<i>Lunch Break</i>	
<b>Date: P.M. 1<sup>st</sup> June. Friday</b>		<b>Chair:</b>
<b>Place: Session B, the Second Floor, Meeting Room 202</b>		<b>Prof. Ruan Xichao</b>
14:00-14:20	<b>B18:</b> Optimizing the Shielding Structure in Neutron Logging Instrument	Dr. Lei Song
14:20-14:40	<b>B19:</b> Development of HINEG and Its Experimental Campaigns	Dr. Zhigang WANG
14:40-15:00	<b>B20:</b> A Single-pixel Gamma Imaging System	Dr. Dongming Wang
15:00-15:20	<b>B21:</b> 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	<b>B22:</b> A Cs <sub>2</sub> LiYCl <sub>6</sub> :Ce and SiPM Based Advanced Detector for Neutron and Gamma Hybrid Field Detection	Dr. Zhonghai Wang
15:40-16:00	<i>Coffee Break</i>	
16:00-16:20	<b>B23:</b> Study on the Uncertainty of Neutron Angle in Associated Particle Imaging	Dr. Shanpeng Zhao
16:20-16:40	<b>B24:</b> Experimental Investigations on Pulsed-Neutron-Induced Single Event Upset Bursts in Commercial ECC SRAMs	Dr. Chao Qi
16:40-17:00	<b>B25:</b> Simulation of Neutron-Induced Degradation of Lateral PNP Bipolar Transistor Using a Defect-Based TCAD Model	Mrs. Chenhui Wang

## Posters

1	<b><u>Zhu Yangni</u>, Tu Jing, Zhang Xinyi, Guo Hewei, Zhangsun Yonggang</b> Radiation process study on conversion of $^{232}\text{Th}$ - $^{233}\text{U}$ at thermal Reactors
2	<b><u>Guo hewei</u>, Zhu yangni, Zhang xinyi, Zhangsun Yonggang</b> Calculation of reactor physical parameters based on $^{233}\text{U}$ nuclear fuel
3	<b><u>Liangping Wang</u>, Peitian Cong, Xinjun Zhang, Jinhai Zhang, Mo Li</b> Estimation of the neutron generation from gas puff z-pinch on Qiangguang Facility
4	<b><u>Xiaoren Yu</u>, Da Li, Shoujie Zhang, Yan Ma, Xiaojing Song</b> Study on the parameters of epithermal neutron field for BNCT
5	<b><u>Da Li</u>, Xiaoren Yu, Liangliang Miao, Shoujie Zhang</b> Mixed field gamma dose rate irradiation measurement of XAPR by using double chamber
6	<b><u>Qiang Wang</u>, Xingcai Guan, Kaihong Fang, Cai-feng Lai</b> 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><u>B.Batchimeg</u>, <u>G.Khuukhenkhuu</u>, <u>M.Odsuren</u>, <u>J.Munkhsaikhan</u> and <u>Ch.Saikhanbayar</u>, <u>Yu.M.Gledenov</u>, <u>E.Sansarbayar</u> and <u>M.V.Sedysheva</u>, <u>Guohui Zhang</u></b> Knock-on mechanism and alpha-cluster formation probability in $(n,\alpha)$ reaction
8	<b><u>G.B. Ryazantsev</u>, <u>I.N. Beckman</u>, <u>G.K. Lavrenchenko</u>, <u>I.M. Buntseva</u> and <u>T.B. Lavrik</u></b> Development of the concept of nuclear exchange beta -forces. on the possibility of obtaining a neutron substance in laboratory conditions
9	<b><u>M. Sukhovej</u>, <u>L. V. Mistyna</u>, <u>D. C. Vu</u>, <u>N. Jovancevic</u> and <u>D. Knezevic</u></b> Hidden parameters of cascade gamma-decay
10	<b><u>D.C. Vu</u>, <u>A.M. Sukhovej</u>, <u>L.V. Mistyna</u>, <u>X.H. Nguyen</u>, <u>D.K. Pham</u>, <u>N.A. Nguyen</u>, <u>H.T. Ho</u></b> A reliability of the results of a study of the nuclear superfluidity and hidden parameters of the gamma decay of the compound state
11	<b><u>A. I. Oprea</u>, <u>C. Oprea</u>, <u>P.V. Sedyshev</u>, <u>Yu. M. Gledenov</u></b> Parity violation effects in capture of slow neutrons by $^{204}\text{Pb}$
12	<b><u>C. Hramco</u></b> Naphthalene mono-crystals growth for proton spin polarization target
13	<b><u>N. Bazhazhina</u>, <u>F. Bečvář</u>, <u>M. Krtička</u>, <u>S. Valenta</u>, <u>W. Furman</u>, <u>A. Couture</u></b> What is possible to find out about the dipole photon strength function from study of resonance neutron radiative capture by $^{195}\text{Pt}$ nucleus measured in DANCE experiment
14	<b><u>Khafizov R. U.</u>, <u>Kolesnikov I.A.</u>, <u>Nikolenko M.V.</u>, <u>Tarnovitsky S.A.</u>, <u>Tolokonnikov S</u> <u>Torokhov V.D.</u>, <u>Trifonov G.M.</u>, <u>Solovei V.A.</u>, <u>Kolkhidashvili M.R.</u>, <u>Konorov I.V.</u></b> The ion background in the radiative neutron decay experiment
15	<b><u>Yicheng Yi</u></b> Energy response of a $\text{LaBr}_3:\text{Ce}$ scintillation detector to pulse gamma and neutron radiation
16	<b><u>X. M. Jin</u>, <u>Y. Liu</u>, <u>S. C. Yang</u>, <u>C. H. Wang</u>, <u>X. Y. Bai</u>, <u>W. Chen</u></b> Experimental study of synergistic effects of neutron and gamma ray irradiation on linear regulator

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

	pressure
37	<b><u>YuliaAleksiayenak, Marina Frontasyeva</u></b> Atmospheric deposition of trace elements biomonitoring study at the territory of the republic of Belarus
38	<b><u>V. V. Kobets, P. V. Sedyshev, V. N. Shvetsov, A. P. Sumbaev, Sh. Zeinalov</u></b> Neutron yield and flux density of the IREN facility for different neutron production targets
39	<b><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></b> Application of neutron resonance capture analysis for determination of isotope composition of fibula from Podbolotyevsky burial ground (10th century AD)
40	<b><u>SONG Zhaohui, YI Yicheng , LU Yi, ZHANG Xianpeng</u></b> The feasibility study of CSNS Back-n using for temperature measurement by resonance neutron
41	<b><u>YANG Hailiang</u></b> Preliminary research results for intense pulsed neutron generation on pulsed power driver
42	<b><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></b> Experiment research of radiation effects on the PPD CMOS image sensors induced by reactor neutron beams
43	<b><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></b> Study of neutron radiation effects on the dark signal of charge-coupled device based on GEANT4 simulations
44	<b><u>Xiufeng Weng, Fuli Wei, Zichuan Zhang, Zhaohui Song, Xinjian Tan, Dongwei Hei, Binkang Li, Xiaodong Zhang, Jun Liu</u></b> Measurement of Energy Spectrum of Betatron X-rays from Laser-plasma Acceleration
45	<b><u>Zhang Jianfu, Zhang Xianpeng, Ruan Jinlu, Liu Linyue</u></b> Energy response to protons for a new proton imaging system
46	<b><u>Huaiyong Bai, Haoyu Jiang, Yi Lu, Zengqi Cui, Jinxiang Chen, Guohui Zhang</u></b> The wall effect of the sample position well for fission fragments
47	<b><u>Haoyu Jiang, Huaiyong Bai, Yi Lu, Zengqi Cui, Jinxiang Chen, Guohui Zhang</u></b> Determination of the $^{232}\text{Th}$ Nucleus Number Using Small Solid Angle Method
48	<b><u>Xie Feng, Shi Quanlin, Xia Ziheng, Fan Jinlong, Li Xuesong, Yu Weixiang, Chen Xiongjun, Ding Youqian, Jiang Wengang, Liang Jianfeng</u></b> $^{241}\text{Am}$ ( $n, 2n$ ) cross-section measurements at 14.8 MeV neutron
49	<b><u>Yi Lu, Zhimin Wang, Huaiyong Bai, Luyu Zhang, Haoyu Jiang, GuohuiZhang</u></b> Unfolding neutron spectrum from Doppler broadened $\gamma$ peak shapes
50	<b><u>Jiang Wengang, Qian Shaojun, Zhou Zuying, Shi Quanlin, Liu Shilong, Li Xuesong, Xie Feng, Dai Yihua, Yang Yi, Liang Jianfeng</u></b> Measurement Technology for Primary Fission Products
51	<b><u>Yu.L. Ratis</u></b> Non-stationary long-range nuclear forces

52	<b><u>O. V. Sidorova</u>, Sh. S. Zeynalov, P.V. Sedyshev</b> Cross-correlation measurement technique application to neutron counting
53	<b><u>Sh. Zeinalov</u>, V. Kuznetsov, P. Sedyshev, V. Shvetsov, O. Sidorova</b> Thermal neutron intensity measurement with fission chamber in current, pulsed and Campbell modes
54	<b><u>P.S.Prusachenko</u>, V.A.Khryachkov, V.V.Ketlerov, M.V.Bokhovko, I.P.Bondarenko</b> Comparative analysis of the number of the n/γ separation algorithms for the stilbene crystal
55	<b><u>T. Khromyleva</u>, I. Bondarenko, A. Gurbich, V. Ketlerov, V. Khryachkov, P.Prusachenko</b> Investigation of (n,α) reaction cross sections for a number of structural material isotopes
56	<b><u>P. S.Nekhoroshkov</u>, M. V.Frontasyeva, A. N.Kamnev</b> Neutron activation analysis in study of features of accumulation of microelements in coastal aquatic ecosystems
57	<b>A. I. Oprea, C. Oprea, <u>P.V. Sedyshev</u>, Yu. M. Gledenov, M.V. Sedysheva</b> Non statistical and asymmetry effects in fast neutrons reactions
58	<b><u>Xingyan Liu</u>, Yiwei Yang, Rong Liu, Zhongwei Wen, Jie Wen</b> Experimental Design of Measuring Neutron Total Cross-Section at CSNS-WNS
59	<b><u>X. P. Zhang</u>, C. C. Han, J. Bao, G. Y. Luan, Z. H. Song, Y. Y. Cheng, W. P. Yan</b> Preliminary Measurement of the neutron profile of the CSNS Back-n
60	<b><u>Yu. M. Gledenov</u></b> Non-statistical behavior of alpha widths of neutron resonances <sup>147</sup> Sm
61	<b><u>E. Korobkina</u></b> Solid deuterium surface degradation at ultracold neutron sources
62	<b><u>Shankar Bhattarai</u></b> Neutron Activation Analysis as a Nuclear Analytical Techniques for Environmental Research
63	<b><u>Li Xiaobing</u>, Wang Yudong, Fan Xing, Yang Chaowen, and Zhou Rong</b> The method of unitive measurement for mixed radiation field dose based on the gamma ray and neutron energy spectrum
64	<b><u>Xing Fan</u>, Zhonghai Wang, Rong Zhou, Chaowen Yang</b> The CLYC-6 Response to Gamma-rays, Fast and Thermal Neutrons