



# XXIV International Baldin Seminar on High Energy Physics Problems "Relativistic Nuclear Physics and Quantum Chromodynamics"

## Monday, 17 September 2018

**Parallel: Applied use of relativistic beams - NICA Hall (13:30 - 15:30)**

**-Conveners: Anton Baldin**

time	[id] title	presenter
13:30	[76] BEAM POWER GAIN FOR MASSIVE URANIUM TARGET UNDER RELATIVISTIC PROTON, DEUTERON AND CARBON NUCLEI IRRADIATION	Dr VORONKO, Vladimir
13:50	[233] Beam and target optimization for energy production in accelerator driven systems	Dr PARAIPAN, Mihaela
14:10	[79] Comparison of the spallation neutron field on the surface of carbon and lead targets under the 660-MeV proton irradiation	Dr ADAM, Jindrich
14:30	[77] Calculation of neutron leakage for a quasi-infinite uranium target by the Monte Carlo method	Ms HUSAK, Krystsina
15:00	[78] Impact of Average Neutron Energy on the Fast Neutron Fluency Measurement by Np237 Fission to Capture Ratio and Reverse Dark Current of Planar Silicon Detector Methods	Prof. SZUTA, Marcin

**Parallel: Applied use of relativistic beams - NICA Hall (16:00 - 18:00)**

**-Conveners: Mihaela Paraipan**

time	[id] title	presenter
16:00	[80] Study and Monte Carlo Simulations of Central Region of Uranium Target QUINTA Irradiated with High-Energy Proton and Deuteron Beams	Mr TICHY, Pavel
16:20	[81] NP-237 TRANSMUTATION EFFECTIVENESS DEPENDENCE ON BEAM PARTICLE, ENERGY AND SAMPLE POSITION IN QUINTA SETUP	Mr KILIM, Stanislaw
16:40	[187] 241Am INCINERATION MEASUREMENTS WITH ACTIVATION METHOD IN THE «QUINTA» NEUTRON FIELD	IGOR, Kryachko Mr KILIM, Stanislaw
17:00	[83] Investigation of the effect of coherent electromagnetic radiation by radioactive decay of 239Np and 152Eu	STEGAILOV, Vladimir
17:30	[92] CROSS-SECTIONS OF NUCLEAR ISOMERS IN THE INTERACTION OF PROTONS ON THIN THORIUM TARGET	HOLOMB, Robert

## Thursday, 20 September 2018

### Parallel: Applied use of relativistic beams - Building 3 Auditorium (13:30 - 15:30)

-Conveners: Pavel Zarubin

time	[id] title	presenter
13:30	[238] First experiments for deep ionisation of Ir, Ce and Xe atoms in a local ion trap in JINR	OVSYANNIKOV, Vladimir
13:50	[98] Recent Progress in Computational Studies of Radiation-Induced Disorders in the Central Nervous System	Dr BUGAY, Aleksandr
14:30	[97] MODELING THE INFLUENCE OF HEAVY ION BEAMS ON THE NEUROGENESIS AND THE FUNCTIONING OF HIPPOCAMPAL NEURAL NETWORKS	KOLESNIKOVA, Elena
14:50	[183] MONTE CARLO TRACK STRUCTURE SIMULATION IN STUDIES OF BIOLOGICAL EFFECTS INDUCED BY ACCELERATED CHARGED PARTICLES IN THE CENTRAL NERVOUS SYSTEM	Mr MUNKHBAATAR, Batmunkh