



# The XXVI International Scientific Conference of Young Scientists and Specialists (AYSS-2022)

## Monday, 24 October 2022

### Applied Research - R1 (403) (14:00 - 16:00)

time	[id] title	presenter
14:00	[1006] Cost-effective automatization of experiment	FEDOROV, Nikita
14:15	[1065] Breeding of a drought-resistant rice variety as an application of mutagenesis induced by the neutron irradiation on the EG-5 installation in the FLNP, JINR	KRUGLYAK, Anastasiya
14:30	[1083] Development of the JINR CSA-1 charge-sensitive preamplifier and comparison with the CANBERRA model 2018EB preamplifier in terms of its main characteristics.	PALNIKOV, Ilya
14:45	[1087] Particle identification in proton boron fusion reaction using Timepix3 detector	Ms KHASSENOVA, Indira
15:00	[1107] Characteristics of the annihilation of positrons in nanosized metal coatings Zr/Nb after He <sup>+</sup> ion irradiation	LOMYGIN, Anton
15:15	[1005] MeV energy electron and proton irradiation effects in semiconductor materials for space applications	ARZUMANYAN, Vika
15:30	[1106] Prospects of catalytically-induced decomposition of methane to produce core-shell structured contrast agent for medical imaging	Mr KOZLOV, Aleksei
15:45	[1095] Sorption of Zirconium on Quartz	Ms KISELYOVA, Sofia

### Applied Research - R1 (403) (16:20 - 17:35)

time	[id] title	presenter
16:20	[1114] The possibility investigation of electron beam deep dose distribution formation by 3D-printed plastic bolus	BUSHMINA, Elizaveta
16:35	[1135] Dilution cryostats as a part of Atomic Hydrogen Targets for electron beam polarimetry	Mr GORODNOV, Ivan
16:50	[1145] EFFECT OF CARBON ADDITIVES ON THE STRUCTURE OF ELECTRODES FOR HIGH ENERGY DENSITY Li-ION BATTERIES	YERDAULETOV, Meir
17:05	[1012] Comprehensive Elemental Analysis of Nanodiamonds for Simulating the Properties of Cold and Very Cold Neutron Reflectors	Dr NEZVANOV, A.
17:20	[1155] Memory Effect in Porous Polyethylene Films Preliminarily Deformed in the Medium of Supercritical CO <sub>2</sub>	Mrs ROENKO, Anna