

LXXI International conference "NUCLEUS – 2021. Nuclear physics and elementary particle physics. Nuclear physics technologies"

Tuesday, 21 September 2021

Section 5. Neutrino physics and astrophysics (13:50 - 18:00)

-Conveners: Egor Zemlin

time	[id] title	presenter
13:50	[98] Nuclear inelastic scattering effect in spectra of neutrinos at weak coupling regime	KONDRATEV, Vladimir
14:15	[33] INTERPRETATION OF THE XENON1T EXCESS IN THE DECAYING STERILE NEUTRINO MODEL	Dr KHRUSCHOV, V.V.
14:40	[101] SHAKE AS THE PREDETERMINING MECHANISM OF THE NEUTRINOLESS DOUBLE ELECTRONIC CAPTURE	KARPESHIN, Feodor
15:05	[111] RESONANCE STRUCTURE OF NEUTRINO CAPTURE CROSS SECTION BY 100Mo NUCLEI	ОСИПЕНКО, Алексей
15:30	Coffee break	
15:50	[38] SELF-CONSISTENT CALCULATIONS OF SOLAR CNO NEUTRINO CAPTURE-RATES FOR 115In.	BORZOV, Ivan
16:15	[23] FISSION FRAGMENTS DISTRIBUTION AND HEAVY NUCLEI NUCLEOSYNTHESIS.	PANOV, Igor
16:40	[17] Some corrections to Fermi-functions and neutrino capture cross-sections	FAZLIAKHMETOV, Almaz
17:05	[22] BETA-DECAY RATE IS AN IMPORTANT FACTOR OF THE R-PROCESS HEAVY NUCLEI FORMATION.	PANOV, Igor
17:30	[292] Sensitivity of liquid argon dark matter search experiments to core-collapse supernova neutrinos.	MACHULIN, Igor

Thursday, 23 September 2021

Section 5. Neutrino physics and astrophysics (15:00 - 19:00)

-Conveners: Tatiana Lazareva

time	[id] title	presenter
15:00	[80] Search for heavy sterile neutrinos in β -decay of ^{144}Pr nuclei	Prof. DERBIN, Alexander
15:25	[295] Monte Carlo simulation of Neutrino-4 experiment	FOMIN, Alexey
15:50	[383] Prospects of the Neutrino-4 experiment on the search for sterile neutrino	SAMOILOV, R.M.
16:15	[8] The possible experiment for search of sterile neutrinos	LYASHUK, Vladimir
16:40	Coffee break	
16:55	[175] Investigation of double beta decay of ^{150}Nd to excited states of ^{150}Sm in NEMO-3	TRETYAK, Victor ON BEHALF OF NEMO-3 COLLABORATION
17:20	[147] Strategy and data analysis for the discovery of CNO solar neutrino by Borexino	PELICCI, Luca
17:45	[25] Heavy Neutrinos at Future Linear e+e- Colliders	Mr MEKALA, Krzysztof
18:10	[93] Estimation of solar neutrino background in the experiment GERDA	Mr VYBOROV, Andrei
18:35	[312] At the intersection between machine learning and nuclear astrophysics: a cGAN framework for helium reaction modeling	CHEN, Thomas