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# The 6th international conference on particle physics and astrophysics

## Wednesday 30 November 2022

### Nuclear Physics: Session 1 - Moskvorechye 2 (11:00-13:00)

-Conveners: Alla Demyanova; Yury Gurov

time	[id] title	presenter
11:00	[245] Size isomers at threshold states	DEMYANOVA, Alla
11:15	[83] ANALYSIS OF SOME MODES OF COLLINEAR CLUSTER TRI-PARTITION (CCT)	Prof. PYATKOV, Yuri
11:30	[85] Single and double charge exchange reactions in $^{12}\text{C}$ fragmentation at 300 MeV/nucleon	Ms. KULIKOVSKAYA, Anna
11:45	[94] Seasonal changes of the $^{214}\text{Po}$ and $^{213}\text{Po}$ half-life solar-daily variation parameters	Prof. KUZMINOV, Valery
12:00	[119] Level structure of unbound heavy helium isotopes $^7,9\text{He}$	Dr. CHERNYSHEV, Boris
12:15	[69] Search of periodical and aperiodical variations of nucleus weak decay parameters	Prof. MAYBUROV, Sergey
12:30	[247] Possible analogs of the Hoyle state in heavier $4\text{N}$ nuclei	DANILOV, Andrey
12:45	[127] Observation of a new effect in the ternary fission of $^{252}\text{Cf}(\text{sf})$ with the emission of alpha particles	Mr. STREKALOVSKIY, Alexandr

### Nuclear Physics: N Session 2 - Moskvorechye 2 (18:00-20:30)

-Conveners: Andrey Danilov; Boris Chernyshev

time	[id] title	presenter
18:00	[92] Neutron resonances in the Constituent Quark Model	Dr. SUKHORUCHKIN, Sergey
18:15	[335] Calculation of the isotope shift in neutral atoms	PROSNYAK, Sergey
18:30	[195] THUNDERSTORM DISCHARGES AND GENERATION OF $^{14}\text{C}$ ISOTOPE	Dr. LYASHUK, Vladimir
18:45	[205] Proton Drip Line for Hypernuclei	SIDOROV, Semyon
19:00	[250] The Fayans energy-density functional. Constraints from the equations of state. Consequences for the Gamow-Teller resonances.	Dr. BORZOV, Ivan
19:15	[350] Nuclear mass table based on Bayesian estimation of binding energy difference expressions	Dr. STOPANI, Konstantin
19:30	[262] Evolution of the phenomenologically determined collective potential along the chain of Zr isotopes	MARDYBAN, Evgenii
19:45	[263] Isoscalar giant monopole resonance in the Ca isotopes	ARSENIEV, Nikolay
20:00	[307] Cross sections for nuclear fission by neutrons with energies up to 200 MeV: experiment and theory	Dr. BARABANOV, A.L.

20:15	[167] DESCRIPTION OF HEAVY-ION FRAGMENTATION REACTIONS AT FERMI ENERGIES IN COMBINED TRANSPORT-STATISTICAL APPROACH.	Dr. MIKHAILOVA, Tatiana
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