International workshop on IUCLEAR HEORY 24 June -30 June 2018 Rila Mountains, Bulgaria http://ntl.inrne.bas.bg/workshop/2018/

PROGRAMME

Monday, June 25

MORNING session

09:30 - 09:45	OPENING
09:45 – 10:15	J. Terasaki: Consistency Examinations of Calculations of Nuclear Matrix Elements of Double- β Decay by QRPA
10:15 – 10:45	A. Vitturi: Two-Particle Transfer Reactions: A Key Tool for the Study of Phase Transitions in Nuclei
10:45 – 11:15	COFFEE
11:15 – 11:45	V. Samarin: Time-Dependent Analysis of Multinucleon Transfer Reactions with Heavy Nuclei
11:45 - 12:15	E. Suraud: Dissipation in Quantum Time Dependent Mean Fields

AFTERNOON session

17:00 - 17:30	COFFEE
17:30 – 18:00	$\it N.~Minkov$: Electromagnetic Properties of the 229m Th Isomer
18:00 - 18:30	A. Martinou: Magic Numbers of Shape Coexistence
18:30 – 19:00	S. Lalkovski: $j-1$ Anomaly Across the Shells

Tuesday, June 26

MORNING session

09:30 - 10:00	R. Machleidt: What is Wrong with Our Current Nuclear Forces
10:00 – 10:30	X. Viñas: New Gogny Interaction Suitable for Astrophysical Calculations
10:30 – 11:00	A. Antonov: Temperature Dependence of the Volume and Surface Contributions to the Nuclear Symmetry Energy within the Coherent Density Fluctuation Model
11:00 – 11:30	COFFEE
11:30 – 12:00	C. Mondal: Understanding the Interdependence of Different Symmetry Energy Elements
12:00 – 12:30	<i>M. Oudih</i> : Tensor Force Effect on the Structure Evolution in Si Isotopes
12:30 - 13:00	A. Galoyan: Strange Particle Production in Hadronic Interactions

AFTERNOON session

- 15:40 16:00 COFFEE
- 16:00 16:30 *A. Kaur*: The Symmetry Energy in Mass-Symmetric and Mass-Asymmetric Heavy-Ion Reactions
- 16:30 17:00 M. Ivanov: Charged-Current Quasielastic (Anti)Neutrino Cross Sections on ¹²C with Realistic Spectral Functions Including Meson-Exchange Contributions
- 17:00 17:30 *S. Dimitrova*: Large Scale Shell Model Calculations for Even Xenon Isotopes
- 17:30 18:00 *R. Mittal*: Probing Surface Diffuseness of Nucleus-Nucleus Interaction Potential

POSTER session

18:00-19:00 *Y. Benbouzid*: T=1 Pairing and Number-Projection Effects on the Spectroscopic Factor of One-Proton Stripping Reactions within the Picket-Fence Model

Wednesday, June 27

MORNING session

09:30 – 10:00	D. Bonatsos: Why Nilsson Quantum Numbers Remain Good at Moderate Deformations?	
10:00 – 10:30	F. Sammarruca: From Nuclei to Neutron Stars with a Microscopic Approach	
10:30 - 11:00	J. Rozynek: Nucleon Properties and Nuclear Equation of State	
11:00 – 11:30	COFFEE	
11:30 – 12:00	N. Buyukcizmeci: Investigations of Binding Energies of Hypernuclei	
12:00 – 12:30	E. Zemlyanaya: Microscopic Optical Potential Model for Analysis of the 12,14 Be + 12 C Experimental Data	
AFTERNOON session		
15:40 – 16:00	COFFEE	
16:00 – 16:30	S. Ait Elkorchi: γ -Rigid Triaxial Nuclei in the Presence of a Minimal Length via a Quantum Perturbation Method	
16:30 – 17:00	<i>K. Drumev</i> : Topics Recently Addressed by the Algebraic Microscopic Pairing-Plus-Quadrupole Shell Model	

19:30 – **OFFICIAL DINNER**

Thursday, June 28

17:10 - 17:30

EXCURSION



I. Moumene: Comparison between Coulomb and Hulthen Potentials within Bohr Hamiltonian for γ -Rigid Nuclei in the Presence of

Friday, June 29

MORNING session

09:30 – 10:00	A. Kurteva: Comparison of the Description of Nuclear β -Decay in Dynamic Collective Model and Microscopic Quasiparticle-Phonon Model
10:00 – 10:30	G. Filippov: Effect of Polarization Phenomena on Interaction of Projectile with a Solid Target
10:30 – 11:00	M. Bouhelal: Level Structure of $^{30}{\rm S}$ of Astrophysical Importance in rp reaction $^{29}{\rm P}(p,\gamma)^{30}{\rm S}$
11:00 – 11:30	COFFEE
11:30 – 12:00	C. Das: Equation of State of Neutron-Rich Matter
12:00 - 12:30	Z. Stoyanov: Neutron Matter in Magnetar Crusts
12:30 – 13:00	Y. Mutafchieva: Structure, Composition and Equation of State of Magnetar Inner Crusts
13:00 - 13:10	CLOSING