international workshop on NUCLEAR HEORY 23 June -29 June 2019 Rila Mountains, Bulgaria http://ntl.inrne.bas.bg/workshop/2019/

PROGRAMME

Monday, June 24

MORNING session

09:30 - 09:45	OPENING
09:45 - 10:15	J. Draayer: Ab Initio symmetry adapted shell model studies
10:15 – 10:45	S. Gmuza: Mapping of Dirac-Hartree-Fock approach onto the relativistic mean field model
10:45 – 11:15	COFFEE
11:15 – 11:45	Shan-Gui Zhou: Multidimensionally-constrained covariant density functional theories
11:45 – 12:15	I. Molodtsova: The triplet of nuclear scissors modes
12:15 – 12:45	V. Samarin: Role of dinuclear collective excitations and nucleon states in fusion dynamics

AFTERNOON session

17:00 - 17:30	COFFEE
17:30 – 18:00	A. Martinou: A mechanism for shape coexistence
18:00 – 18:30	<i>N. Minkov</i> : Study of pear-shape effects in the spectra of even-even nuclei
18:30 – 19:00	S. Lalkovski: Nuclear data project

Tuesday, June 25

MORNING session

09:30 – 10:00	C. Giusti: Microsopic optical potential for elastic proton-nucleus scattering from chiral forces
10:00 - 10:30	G. Popa: Ab initio nonlocal NCSM one-body densities as input to folding potentials for proton-nucleus scattering
10:30 - 11:00	A. Shukla: Nuclear structure effects in bubble nuclei
11:00 - 11:30	COFFEE
11:30 - 12:00	J. Rożynek: The symmetry energy in the dense nuclear matter
12:00 - 12:30	P. Buganu: Shapes coexistence in the frame of the Bohr model
12:30 - 13:00	Y. Lashko: Two-cluster potential energy and the Pauli principle

AFTERNOON session

15:30 - 16:00	COFFEE
16:00 – 16:30	M. Gaidarov: Isotopic and isotonic evolution of the symmetry energy and skins of mirror nuclei
16:30 – 17:00	$\it H.~Mebrek$: Description of the spectroscopic properties of ^{26}Si
17:00 – 17:30	<i>M. Ivanov</i> : Realistic spectral function model for charged-current quasielastic-like neutrino and antineutrino scattering cross sections on ¹² C
17:30 – 18:00	S. Mishev: Transition densities in odd-A nuclei
18:00 – 18:30	P. Radovanov: Transfer to TVSA-12 fuel assembly in Kozloduy Nuclear Power Plant
18:30 – 19:00	G. Deyanova: Factors for building new nuclear capacities in the light of energy markets liberalization in European Union

POSTER session

19:00 – 19:30 N. Zabari: Bizarreness of symmetry energy behavior in peculiar cases of meson interactions
 Ch. Velchev: Alternative theoretical approaches in the examination of the interaction of nucleons in the atomic nuclei

Wednesday, June 26

MORNING session

09:30 - 10:00	D. Bonatsos: Manifestations of SU(3) symmetry in heavy deformed nuclei
10:00 – 10:30	E. Balbutsev: Wigner Function Moments method and RPA – similarity and difference
10:30 - 11:00	V. Nesterenko: Toroidal mode in nuclei: recent progress
11:00 – 11:30	COFFEE
11:30 – 12:00	<i>P. Zhao</i> : Covariant density functional theory for nuclear spectroscopy: on and beyond the mean field
12:00 – 12:30	A. Vdovin: Skyrme-TQRPA calculations of stellar electron capture rates
12:30 - 13:00	A. Repko: Nuclear excitations by spuriosity-free Skyrme QRPA and beyond

AFTERNOON session

20.00	OFFICIAL DINNER
18:00 - 18:30	Z. Stoyanov: Nuclear abundances in the crust of magnetars
17:30 - 18:00	Y. Mutafchieva: Unified equation of state for magnetar crusts
17:10 – 17:30	<i>Ch. Christov</i> : Are the medium modifications of the nucleon structure suggested by a chiral quark-meson theory reliable?
16:30 – 17:00	$\it K. Drumev$: Shapes and shape phase transitions in even-even $\it sd$ - and $\it pf$ -shell nuclei within the Algebraic Microscopic Pairing-plus-Quadrupole Shell Model
16:00 – 16:30	<i>M. Oulne</i> : Shape phase transition in nuclei within a correlation between two quantum concepts
15:30 - 16:00	COFFEE

20:00 – **OFFICIAL DINNER**



Friday, June 28

MORNING session

09:30 – 10:00	T. Nakamura: Recent progress of spectroscopic studies of nuclei near and beyond the neutron drip line
10:00 - 10:30	A. Adahchour: Bohr Hamiltonian with Hulthén plus ring-shaped potential for triaxial nuclei with deformation-dependent mass term
10:30 – 11:00	<i>H.M. Mittal</i> : Description of identical superdeformed bands in $A\sim 190$ mass region using soft rotor formula
11:00 - 11:30	COFFEE
11:30 - 12:00	A. Kurteva: Beta-decay 231 Th \rightarrow 231 Pa
12:00 – 12:30	G. Ismail: Accepting 1_{\max} as a limiting angular momentum for complete fusion
12:30 – 13:00	H. Maridi: Energy dependence of the optical potential for proton-nucleus scattering up to 1 GeV/nucleon

13:00 - 13:10 **CLOSING**