



JOINT INSTITUTE FOR NUCLEAR RESEARCH
The International Conference on
NUCLEAR STRUCTURE AND RELATED TOPICS
dedicated to the 90th anniversary of Prof. V.G. Soloviev (1925-1998)
Dubna, July 14-18, 2015

CONFERENCE PROGRAM

July 14, Tuesday

8:30 - 9:30	<i>Registration</i>	
9:30 - 9:45	Opening	
9:45 - 10:05	Quasiparticles, phonons and beyond (nuclear structure calculations in a large domain of excitation energies)	Ch. Stoyanov
10:10 - 10:35	Exotic nuclear matter: from nuclei to neutron stars	H. Lenske
10:40 - 11:00	Self-consistent Theory of Finite Fermi Systems <i>vs</i> Skyrme-Hartree-Fock method	E. Saperstein
11:05 - 11:30	<i>Coffee break</i>	
11:30 - 11:50	A microscopic approach for states in odd nuclei: Particle-phonon multiplets, charge-exchange transitions and β -decay	G. Colò
11:55 - 12:20	Shell evolution in the neutron-rich Ni isotopes: Fingerprints of a dual quantum liquids phase transition?	G. de Angelis
12:25 - 12:50	Nuclear shape and potential energy surface from multi-dimensionally constrained CDFT	Shan-Gui Zhou
12:55 - 15:00	<i>Lunch</i>	
15:00 - 15:20	Pairing properties of realistic shell-model interactions	A. Gargano
15:25 - 15:45	Nuclear density functional theory with a semi-contact 3-body interaction	D. Lacroix
15:50 - 16:10	Pairing phase transition at finite temperature – a relativistic Hartree-Fock-Bogoliubov study	Nguyen Van Giai
16:15 - 16:35	Nuclear tensor interactions in a covariant energy density functional	Wen Hui Long
16:40 - 17:05	<i>Coffee break</i>	
17:05 - 17:25	Damping of simple modes of high-energy nuclear excitations: Dispersive optical models and their implementations	M. Urin
17:30 - 17:45	Skyrme-RPA description of lowest gamma-vibrational states in deformed nuclei	V. Nesterenko
17:50 - 18:05	Application of Fayans functional to deformed nuclei	S. Tolokonnikov
18:10 - 18:30	Nuclear mass table in relativistic continuum Hartree-Bogoliubov theory	Youngman Kim
18:35 - 18:55	Isospin effects in nuclear mass models	Ning Wang
19:00	WELCOME PARTY	

July 15, Wednesday

9:00 - 9:25	Nuclear physics with advanced brilliant gamma beams at ELI-NP	C. Ur
9:30 - 9:55	First observation of the competitive double-gamma decay in nuclei	N. Pietralla
10:00 - 10:20	Challenges in spectroscopy of self-conjugate nuclei	Bo Cederwall
10:25 - 10:45	Search for mixed-symmetry states in the vicinity of the double-magic nucleus ^{208}Pb	G. Rainovski
10:50 - 11:20	<i>Coffee break</i>	
11:20 - 11:40	Isomers and oblate collectivity at high spin in neutron-rich Pt isotopes	S. K. Tandel
11:45 - 12:05	Lifetime measurements in mass regions $A=100$ and $A=130$ as a test for chirality in nuclear systems	D. Tonev
12:10 - 12:30	Collectivity of neutron-rich Cr and Fe toward $N=50$	V. Werner
12:35 - 12:55	Octupole deformations in high- K isomeric states of heavy and superheavy nuclei	N. Minkov
13:00 - 15:00	<i>Lunch</i>	
15:00 - 15:20	The r -process in neutron star mergers	G. Martínez-Pinedo
15:25 - 15:45	Neutrino-nucleus reactions in supernovae	A. Dzhioev
15:50 - 16:10	Impact of low-energy multipole excitations and pygmy resonances on radiative nucleon captures	N. Tsoneva
16:15 - 16:40	<i>Coffee break</i>	
16:40 - 16:55	Impact of phonon coupling on the radiative nuclear reaction characteristics	S. Kamedzhiev
17:00 - 17:20	Clustering as a general property of nuclear states	Yu. Tchuvil'sky
17:25 - 17:45	Cluster effects in the structure of $^{44,46}\text{Ti}$	T. Shneidman
19:00	CONCERT	

July 16, Thursday

9:00 - 9:20	Superfluid fission dynamics with microscopic approaches	C. Simenel
9:25 - 9:40	Collective aspects of microscopic mean-field evolution along the fission path	Yusuke Tanimura
9:45 - 10:00	Energy dependence of fission observables	H. Paşca
10:05 - 10:20	Alpha-decay and spontaneous fission half-lives of superheavy nuclei around the doubly magic nucleus ^{270}Hs	I. Silişteanu
10:25 - 10:45	Nuclear size isomers	A. Ogloblin
10:50	<i>Coffee</i>	
12:00	EXCURSION TO SERGIEV POSAD	

July 17, Friday

9:00 - 9:25	Superheavy element research at RIKEN	Kouji Morimoto
9:30 - 9:50	Observation of new neutron-deficient isotopes with $Z \geq 92$ in multinucleon transfer reactions	S. Heinz
9:55 - 10:15	Resonances and reactions from mean-field dynamics	P. Stevenson
10:20 - 10:40	Role of virtual processes in structure and reactions	A. Volya
10:45 - 11:05	The Two Step Model for heavy ion induced reactions	G. Kosenko
11:10 - 11:40	<i>Coffee break</i>	
11:40 - 12:05	Extracting the hexadecapole parameters from backward quasi-elastic scattering	H.Q. Zhang
12:10 - 12:30	Predicting reaction observables from back-scattering measurements in low-energy heavy-ion collisions	A. Diaz-Torres
12:35 - 12:55	Testing nuclear reaction models in experiments with weakly bound nuclei	K. Rusek
13:00 - 15:00	<i>Lunch</i>	
15:00 - 15:20	Day one experiments at ACCULINNA-2 fragment separator	A. Fomichev
15:25 - 15:45	Study of ^{11}Li and $^{10,11}\text{Be}$ nuclei through elastic scattering and breakup reactions	M. Gaidarov
15:50 - 16:10	Excitation of the Hoyle state	Dao Tien Khoa
16:15 - 16:30	True three-body decay of ^6Be	V. Chudoba
16:35 - 17:00	<i>Coffee break</i>	
17:00 - 17:20	Nucleon resonances in isobaric charge-exchange reactions	I. Vidaña
17:25 - 17:40	Translation Invariant Shell Model for Λ hypernuclei	L. Majling
17:45 - 18:00	Dirac density functional for dense matter	S. Gmuca
18:05 - 19:30	POSTER SESSION	
20:00	CONFERENCE DINNER	

July 18, Saturday

9:30 - 9:55	Stabilization of the rod shape nuclei in covariant density functional theory	Jie Meng
10:00 - 10:20	The use and applications of symplectic symmetries for a unified description of nuclear properties	A. Georgieva
10:25 - 10:40	Interrelations between the pairing and quadrupole interactions in the microscopic shell model	K. Drumev
10:45 - 11:05	The macroscopic limit of the proton-neutron symplectic model	H. Ganev
11:10 - 11:40	<i>Coffee break</i>	
11:40 - 12:00	Recent insight into the mechanism of proton-induced composite particle emission in inclusive reactions	A. Cowley
12:05 - 12:25	Proton-induced alpha-particle emission into the continuum of outgoing energies	S. Dimitrova
12:30 - 12:50	Delayed neutron emission of very neutron-rich nuclei	I. Borzov
12:55 - 15:00	<i>Lunch</i>	
15:00 - 15:20	Giant monopole resonance in deformed nuclei	J. Kvasil
15:25 - 15:40	Influence of neutron surface on $E1$ resonance properties	T. Tretyakova
15:45 - 16:05	Study on the low-energy spin-isospin excitations	C. L. Bai
16:10 - 16:30	Study of Gamow-Teller transitions in ^{132}Sn	Masaki Sasano
16:35	Closing	
