

SKLTP/CAS – BLTP/JINR JOINT WORKSHOP
”PHYSICS OF STRONG INTERACTING SYSTEMS”
Dubna, July 14-19, 2014

PROGRAMME

July 15, Tuesday

- 9:30 - 10:00 *Registration*
- 10:00 - 10:10 **Opening**
- 10:10 - 10:35 The effect of $Q > 0$ neutron transfer on sub-barrier fusion reaction Huan-Qiao Zhang
- 10:40 - 11:05 Microscopic dynamics simulations of heavy-ion fusion reactions induced by neutron-rich nuclei Ning Wang
- 11:10 - 11:40 *Coffee break*
- 11:40 - 12:05 Breakup effects on complete fusion cross sections at energies above the Coulomb barrier Shan-Gui Zhou
- 12:10 - 12:35 Applications of quantum diffusion approach to sub-barrier fusion reaction V. Sargsyan
- 12:40 - 13:05 Quantifying low-energy nuclear collision dynamics within the coupled-channels density-matrix method A. Diaz-Torres
- 13:10 - 15:00 **Lunch**
- 15:00 - 15:25 Giant dipole resonance as a fingerprint of alpha clustering configurations Yu-Gang Ma
- 15:30 - 15:55 Co-existence of alpha-cluster and neutron halo structures in ${}^9\text{Be}$ A. A. Ogloblin
- 16:00 - 16:25 Few-body dynamics at the driplines L. Grigorenko
- 16:30 - 17:00 *Coffee break*
- 17:00 - 17:25 Nuclear shell effect and true ternary fission of nuclei A. Nasirov
- 17:30 - 17:55 Quasifission in heavy-ion induced reactions G. Knyazheva
- 18:00 - 18:25 Angular momentum distribution of binary reaction products H. Pasca
- 19:00 **Welcome party. BLTP buffet**

*The Workshop sessions are held in the Conference hall
at the 2nd floor of the BLTP building*

July 16, Wednesday

9:30 - 9:55	Dynamical potential barriers and production cross sections of superheavy elements $Z = 119$ and 120 in hot fusion reactions	Feng-Shou Zhang
10:00 - 10:25	Systematic calculations on alpha-decay half-lives and branching ratios of heavy nuclei	Zhong-Zhou Ren
10:30 - 10:55	Structure of nuclei with $Z \sim 100$	A. Sushkov
11:00 - 11:15	Study of level densities in superheavy nuclei	A. Bezbakh
11:20 - 11:45	<i>Coffee break</i>	
11:45 - 12:10	At the end of the nuclear map	Yu. Ts. Oganessian
12:15 - 12:40	Probing the stability of superheavy nuclei with radioactive ion beams	S. Heinz
12:45 - 13:10	Relativistic Hartree-Fock-Bogoliubov predictions of superheavy magic nuclei	Nguyen Van Giai
13:15 - 15:00	Lunch	
15:00 - 15:25	Fusion-fission reactions of the $^{32}\text{S} + ^{170}\text{Er}$ and $^{28}\text{Si} + ^{174}\text{Yb}$ systems at near- and sub-barrier energies	Cheng-Jian Lin
15:30 - 15:55	Fusion reaction studies leading to the doubly magic nucleus ^{100}Sn within DNS model	Sh. Kalandarov
16:00 - 16:25	Newest results in constraining the symmetry energy at high densities	Qing-Feng Li
16:30 - 17:00	<i>Coffee break</i>	
17:00 - 17:25	Energy spectrum of nuclei and hypernuclei in the frame of Skyrme Hartree-Fock model	Xian-Rong Zhou
17:30 - 17:55	The gas filled recoil separator at IMP	Zai-Guo Gan
18:00 - 18:25	Optical Time Projection Chamber - a novel technique for detection of decays of exotic nuclei	G. Kaminski
18:30 - 18:55	Using gas-jet for separation of neutron-rich osmium isotopes	K. Novikov

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July 17, Thursday

9:30 - 9:55	Low-energy collective Gamow-Teller states and isoscalar pairing interaction	Chun-Lin Bai
10:00 - 10:25	Stellar neutrino emission at finite temperature in covariant density functional theory	Jin-Niu Hu
10:30 - 10:55	Neutral-current neutrino-nucleus reactions at finite temperature in supernova environments	A. Vdovin
11:00 - 11:30	<i>Coffee break</i>	
11:30 - 11:55	Creation of nuclei at explosively dense matter	V. Kondratyev
12:00 - 12:25	Microscopic description of nuclear motion with pairing	G. Scamps
12:30 - 12:55	Beta-decay of very neutron-rich nuclei	I.N. Borzov
13:00 - 15:00	Lunch	
15:00 - 15:25	Modern energy density functional for nuclei and nuclear matter	S. Shlomo
15:30 - 15:55	Effect of tensor force on dissipation dynamics in time-dependent Hartree-Fock theory	Lu Guo
16:00 - 16:25	Dynamics of nuclear excitations at the neutron threshold	N. Tsoneva
16:30 - 17:00	<i>Coffee break</i>	
17:00 - 17:25	Isoscalar monopole giant resonance in spherical and deformed nuclei: Skyrme RPA analysis	V. Nesterenko
17:30 - 17:55	Magnetic moments in odd-A isotopes and coupling of nucleons with the zero-point motion	S. Mishev
18:00 - 18:25	Impact of variational space on $M1$ transitions between the 2_1^+ and 2_2^+ excitations in $^{132,134,136}\text{Te}$	A. Severyukhin
19:00	Banquet. Scientific Club	

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July 18, Friday

Excursion to the Museum Estate "Archangelskoye", bus at **8:00** (from hotel "Dubna")