

**BLTP/JINR-KLTP/CAS JOINT WORKSHOP**  
**“PHYSICS OF STRONG INTERACTION”**

Dubna, June 27-July 2, 2016

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**PROGRAMME**

**June 27, Monday**

*Arrival*

**June 28, Tuesday**

- 9:30 - 10:00 *Registration*
- 10:00 - 10:10 **Opening**
- 10:10 - 10:35 Study of breakup and transfer of weakly bound nuclei to explore the low energy reaction dynamics Huan-Qiao Zhang
- 10:40 - 11:05 Study of nuclear symmetry energy with breakup reaction induced by deuteron Li Ou
- 11:10 - 11:40 COFFEE BREAK
- 11:40 - 12:05 The threshold anomaly of optical potentials and the dispersion relation for weakly-bound nuclear systems Cheng-Jian Lin
- 12:10 - 12:35 Cluster structure of light nuclei S.N. Ershov
- 12:40 - 13:05 Gamma-decay in light nuclei. Borromean halo, Tango halo, and halo isomers I. Izosimov
- 13:10 - 15:00 **Lunch**
- 15:00 - 15:25 Inelastic  ${}^9\text{Be}+\alpha$  scattering: do the concepts of  ${}^9\text{Be}$  structure should be changed? A.A. Ogloblin
- 15:30 - 15:55 Impact of resonances of the weakly bound nucleus  ${}^6\text{Li}$  on elastic scattering and fusion cross sections for reactions with spherical targets A. Gomez Camacho
- 16:00 - 16:25 Observation of a proton halo in the unbound first excited state of  ${}^{13}\text{N}$  A.S. Demyanova
- 16:30 - 16:55 COFFEE BREAK
- 16:55 - 17:15 Do the dilute excited states exist in  ${}^{16}\text{O}$ ? A.N. Danilov
- 17:20 - 17:45 Multi-neutron emission near new magic shell  $N = 34$  I.N. Borzov
- 17:50 - 18:10 Fragmentation of the  $E1$  strength in neutron-rich nuclei N.N. Arsenyev
- 18:15 - 18:35 Investigating the pygmy dipole resonance using  $\beta$ -decay S. Mishev
- 18:40 - 18:55 The effect of unpaired nucleons on the beta-decay properties E. Sushenok
- 19:00 **Welcome party. BLTP buffet.**

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

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## June 29, Wednesday

9:30 - 9:55	Alpha-decay of the neutron-deficient isotopes $^{215-217}\text{U}$	Zai-Guo Gan
10:00 - 10:25	Theoretical predictions for the properties of heaviest nuclei	A. Sobiczewski
10:30 - 10:55	Structure of superheavy nuclei	R.V. Jolos
11:00 - 11:15	Nuclear incompressibility and ISGMR energy from radius-constrained RMF model	Kun Wang
11:20 - 11:45	COFFEE BREAK	
11:45 - 12:10	Decay properties of some unstable nuclei	Zhong-Zhou Ren
12:15 - 12:40	Microscopic neutron emission and fission rates in compound superheavy nuclei	Jun-Chen Pei
12:45 - 13:10	Physics origin of transition from symmetric to asymmetric fission	H. Pasca
13:15 - 15:00	<b>Lunch</b>	
15:00 - 15:25	Exploration of fission phase-space with TDHF+BCS	D. Lacroix
15:30 - 15:55	Single-particle and collective rotational properties of transfermium nuclei in a PNC-CSM method	Xiao-Tao He
16:00 - 16:25	Isotopic fission-fragment distributions within the Langevin approach	K. Mazurek
16:30 - 17:00	COFFEE BREAK	
17:00 - 17:25	New isotope production with multi-fragmentation and multi-nucleon transfer	Ning Wang
17:30 - 17:55	Analysis of the multinucleon transfer processes within Langevin-type model	A. Karpov
18:00 - 18:25	The effect of the orbital angular momentum on the reaction mechanism in heavy ion collisions	A.K. Nasirov

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**June 30, Thursday**

9:15 - 9:40	Shear viscosity of nuclear matter by heavy-ion collisions	Yu-Gang Ma
9:45 - 10:10	Directed flow of hadrons in asymmetric heavy-ion collisions	V.D.Toneev
10:15 - 10:40	Strange quark matter objects with two types of surface treatments	Cheng-Jun Xia
10:45 - 11:10	Gluonic structure of the constituent quark	N. Kochelev
11:15 - 11:30	The role of instantons in high-energy polarization-dependent phenomena	N. Korchagin
13:00 -	TRIP TO MOSCOW	

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## July 1, Friday

9:30 - 9:55	Core Gamow shell model with realistic nuclear forces	Fu-Rong Xu
10:00 - 10:25	Long-time isospin drift in heavy ion collisions	Zhi-Gang Xiao
10:30 - 10:50	Synthesis of very neutron deficient isotopes of medium-mass nuclei in complete fusion and quasifission reactions	Sh.A. Kalandarov
10:55 - 11:25	COFFEE BREAK	
11:25 - 11:50	Properties of neutron-rich nuclear matter and three-body force effect	Wei Zuo
11:55 - 12:20	Three-body model for neutron-proton correlation in $N = Z$ -odd nuclei	Yusuke Tanimura
12:25 - 12:50	Impact of 4-body correlations on clustering	R.-D. Lasserri
12:55 - 15:00	<b>Lunch</b>	
15:00 - 15:25	Why do we still drop exchange interactions in relativistic nuclear models?	Nguyen Van Giai
15:30 - 15:55	Quasiparticles, phonons and beyond	Ch. Stoyanov
16:00 - 16:25	Dinuclear system approach to the structure of odd-mass nuclei	T.M. Shneidman
16:30 - 17:00	COFFEE BREAK	
17:00 - 17:25	Hypernuclear structure in the Skyrme Hartree-Fock Theory	Xian-Rong Zhou
17:30 - 17:55	Skyrme-TQRPA study of supernova weak-interaction processes	A.A. Dzhihev
18:00 - 18:25	Universality in SGR burst statistics	V. N. Kondrateyv
18:30	<b>Closing</b>	

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19:15 **Dinner. Restaurant at the hotel "Dubna"**

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## July 2, Saturday

Discussions, departure