

Program of BLTP/JINR - KLFTP/CAS Joint Workshop on NUCLEAR PHYSICS

29 June, 2010

9:15 Opening

Chairman: V. Voronov

9:30 Huan-Qiao Zhang (China Institute of Atomic Energy, Beijing), Studies of Several Heavy Ion Reactions Around the Coulomb Barrier (25+5 min.)

10:00 A. Popeko (FLNR), Synthesis of superheavy elements (25+5 min.)

10:30 G. Adamian (BLTP), Production of heaviest and neutron-rich nuclei in complete fusion and transfer-type reactions (25+5 min.)

11:00 – 11:30 Coffee break

Chairman: En-Guang Zhao

11:30 V. Pashkevich (BLTP), Multimodal nuclear fission (25+5 min.)

12:00 Cai-Wan Shen (Huzhou Teachers College, Hu-Zhou), Fusion hindrance in the formation of superheavy elements (25+5 min.)

12:30 A. Nasirov (BLTP), Influence of entrance channel and nuclear shell effects on formation of reaction products (25+5 min.)

13:00 – 15:00 Lunch

Chairman: Jie Meng

15:00 D. Kamanin (FLNR), Multicluster decays of heavy actinides (25+5 min.)

15:30 V. Sargsyan (BLTP), Peculiarities of the sub-barrier fusion with the quantum diffusion approach (25+5 min.)

16:00 A. Zubov (BLTP), Formation of hyperdeformed states in entrance channel of heavy-ion reaction (25+5 min.)

16:30 – 17:00 Coffee break

Chairman: Yang Sun

17:00 Jiang-Ming Yao (Southwest University, Chong-Qing), Beyond the relativistic mean-field theory: configuration mixing of three-dimensional angular momentum projected states (25+5 min.)

17:30 A.V. Sushkov (BLTP), N.Yu. Shirikova, N. Lo Iudice, A QPM approach to the description of new data in deformed nuclei (25+5 min.)

18:00 V. Nesterenko (BLTP), Description of Giant resonances with Skyrme forces (25+5 min.)

18:30 Welcome party (BLTP)

30 June, 2010

Chairman: Huan-Qiao Zhang

9:30 Yang Sun (Shanghai Jiaotong University, Shanghai), Shell model study for heavy nuclei (25+5 min.)

10:00 A. Yeremin (FLNR), Spectroscopy of transfermium elements in Dubna (25+5 min.)

10:30 N. Antonenko (BLTP), Isomeric states in heaviest nuclei (25+5 min.)

11:00 – 11:30 Coffee break

Chairman: A. Vdovin

11:30 Shan-Gui Zhou (Institute of Theoretical Physics, Beijing), Deformation effects in neutron drip line nuclei (25+5 min.)

12:00 A. Severyukhin (BLTP), Vibrational excitations and a separable approximation for Skyrme interactions (25+5 min.)

12:30 Shi-Sheng Zhang (Beihang University), Isospin-dependent pairing interaction from nuclear matter calculations (25+5 min.)

13:00 – 15:00 Lunch

Chairman: R. Jolos

15:00 Jie Meng (Peking University and Beihang University, Beijing), Astrophysical r-process and the Th/U chronometer (25+5 min.) (25+5 min.)

15:30 A. Ogloblin (Kurchatov Institute), Neutron halo in the excited nuclear states (25+5 min.)

16:00 Zhenhua Zhang (Institute of Theoretical Physics, Beijing), Particle-number conserving (PNC) method for treating pairing correlations in well-deformed nuclei (25+5 min.)

16:30 – 17:00 Coffee break

Chairman: S. Ershov

17:00 T. Shneidman (BLTP), Multiple reflection-asymmetric type band structures in actinides (25+5 min.)

17:30 R. Jolos (BLTP), E0 transitions in transitional nuclei (25+5 min.)

01 July, 2010

Chairman: G. Adamian

9:30 S. Heinz (GSI), Heavy Element Research at SHIP (25+5 min.)

10:00 Sheng-Jiang Zhu (Tsinghua University, Beijing), Research on shape driving effect at high spins in A~140 nuclei (25+5 min.)

10:30 E. Balbutsev (BLTP), Description of the collective motion by the method of phase space moments (25+5 min.)

11:00 – 11:30 Coffee break

Chairman: V. Pashkevich

11:30 A. Andreev (BLTP), Description of light charged particle emission in ternary fission (25+5 min.)

12:00 V. F. Comas (GSI), Transfer reaction studies at SHIP (25+5 min.)

12:30 V. Kondratyev (BLTP), Criticality Signals in Nuclear Dynamics (25+5 min.)

13:00 – 15:00 Lunch

Chairman: Shan-Gui Zhou

15:00 A. Fomichev (FLNR), Recent results from ACCULINNA (25+5 min.)

15:30 S. Ershov (BLTP), Novel method for solution of the coupled radial Schrödinger equations (25+5 min.)

16:00 A. Malykh (BLTP), Structure and width of the ^{12}C (0^+_2) (Hoyle) state in the alpha-cluster model (25+5 min.)

16:30 Closing

19:00 Conference dinner (Restaurant “Dubna”)

02 July

~11:00 Visit to the Flerov Laboratory of Nuclear Reactions