

International Conference "Nuclear Theory in the Supercomputing Era - 2016" <u>http://www.ntse.khb.ru/2016/</u>

Program

Pacific National University, Khabarovsk, Russia. September 19–23, 2016.

Monday, September 19.

Conference Hall

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9:00 - 9:40	Registration
9:40 - 10:00	Conference opening. Sergey N. Ivanchenko, president PNU. Welcome from Pacific National University
10:00 - 11:00	James Vary. Ab initio No-Core Shell Model with Leadership Class Supercomputers
11:00 - 11:20	Coffee break
	Chair: Charlotte Elster
11:20 - 12:20	Carlo Barbieri. Self-Consistent Green's Function Theory Computations of Medium Mass Isotopes
12:20 - 13:20	Furong Xu. CGSM and MBPT Calculations with Realistic Nuclear Forces
13:20 - 14:20	Lunch
	Chair: Roman Skibiński
14:20 - 15:20	Andrey Shirokov. NN Interaction Daejeon16
15:20 - 16:20	Kimiko Sekiguchi. Approach to Three Nucleon Forces from Experiment
16:20 - 16:40	Coffee break
	Room 201
16:40 - 18:00	Discussions, additional questions to speakers Discussion leader: Viktor Efros
18:30	Welcome Party

Tuesday, September 20.

	Conference Hall
	Chair: Andrey Shirokov
9:00 - 10:00	Viktor Efros. An Approach to the Computation of Few/Many-Body Multichannel Reactions
10:00 - 11:00	Charlotte Elster. Reactions with Light Nuclei
11:00 - 11:20	Coffee break
	Chair: Kimiko Sekiguchi
11:20 - 12:20	Alexander Motovilov. Structure of <i>T</i> -Matrices on Unphysical Energy Sheets and Few-Body Resonances
12:20 - 13:20	Roman Skibiński. Modern two-nucleon forces in three-nucleon reactions
13:20 - 14:20	Lunch
	Chair: Noritaka Shimizu
14:20 - 15:20	Xingbo Zhao. Time-dependent Basis Function Approach to Nuclear Scattering
15:20 - 16:20	Kai Wen. The Inertial Mass and Collective Path in Nuclear Fusion/Fission Reactions
16:20 - 17:10	Nikolay Khokhlov. Deuteron Wave Function and Elastic eD Scattering
17:10 - 17:30	Coffee break
	Room 201
17:30 - 18:50	Discussions, additional questions to speakers Discussion leader: James Vary

Wednesday, September 21.

Conference Hall

	Chair: John Hill
9:00 - 10:00	Joel Lynn. Quantum Monte Carlo Calculations with Chiral Effective Field Theory Interactions
10:00 - 11:00	Youngman Kim. Nuclear Mass Table Project with Relativistic Continuum Hartree-Bogoliubov Theory
11:00 - 11:20	Coffee break
	Chair: Sergey Yakovlev
11:20 - 12:20	Shan-Gui Zhou. Nuclear Tetrahedral Shapes from MDC-CDFT
12:20 - 13:20	Junchen Pei. Continuum DFT Studies of Exotic Nuclei and Dynamics
13:20 - 14:20	Lunch
	Chair: Yuri Tshuvil'sky
14:20 - 15:20	Noritaka Shimizu. Large-Scale Shell-Model Studies for Exotic Nuclei and Nuclear Level Densities
15:20 - 16:20	Alexander Mazur. Analysis of Resonant States within the SS HORSE Method
16:20 - 16:50	Myeong-Hvan Mun. Study of Low-Energy Phase Shift using NCSM with Three Different NN Interactions
16:50 - 17:10	Coffee break
	Room 201
17:10 - 18:30	Discussions, additional questions to speakers Discussion leader: Luigi Coraggio

Thursday, September 22.

	Conference Hall
	Chair: Alexander Motovilov
9:00 - 10:00	Olga Rubtsova. Solution of Few-Body Scattering Problems in a Discrete Representation by Using GPU
10:00 - 11:00	Luigi Coraggio. Large-Scale Shell-Model Challenges within the RIB Era
11:00 - 11:20	Coffee break
	Chair: Carlo Barbieri
11:20 - 12:20	Sergey Yakovlev. Scattering in the System of Three Charged Particles
12:20 - 13:00	Sergey Zaytsev. Electron Correlations in the Framework of Quasi Sturmian Functions Approach
13:00 - 14:00	Lunch
	Room 201
14:00 - 15:10	Discussions, additional questions to speakers Discussion leader: Furong Xu
15:10 - 19:30	Excursion
19:30	Conference Dinner

Friday, September 23.

	Conference Hall
	Chair: Youngman Kim
9:00 - 10:00	John Hill. Highlights from the 15 Year Heavy Ion Program at the PHENIX Experiment
10:00 - 11:00	Yurii Tchuvil'sky. Asymptotic Properties of Resonance and Weakly-Bound States in the Shell-Model Calculations
11:00 - 11:20	Coffee break
	Chair: Shan-Gui Zhou
11:20 - 12:10	Alexander Soloviev. The Algebraic Versions of the Resonating Group Model and the Orthogonality Conditions Model as Fundamentals of Theoretical Approaches for Describing Nuclear Reactions
12:10 - 12:50	Igor Mazur. Energy and Width of the Resonance in the 4n System
12:50 - 13:20	Vasily Kulikov. S-matrix Method for Extrapolation of the Results of No-Core Shell Model Calculations
13:20 - 14:20	Lunch
	Public Lectures
14:20 - 15:20	James Vary. Role of Supercomputers in Basic Science Simulations
15:20 - 16:20	Victor Efros. Quantum Mechanics of Reactions with Many Open Channels (in Russian)
16:20 - 16:40	Coffee break
	Room 201
16:40 - 18:00	Discussions, additional questions to speakers Discussion leader: Andrey Shirokov
18:00	Conference closing

Saturday, September 24.

	Conference Hall
	Public Lectures
10:00 - 11:00	Yurii Tchuvil'sky. Current Status and Prospects of Nuclear Physics Research (in Russian)