

Program of International Conference on Nuclear Theory in the Supercomputing Era — 2016 (NTSE-2016)

Sunday, September 18

Arrival

Monday, September 19

Conference Hall

9:00–9:40am	<i>Registration</i>
9:40–10:00am	<i>Conference opening</i> Sergey N. Ivanchenko, president PNU Welcome from Pacific National University
10:00–11:00am	James Vary <i>Ab initio</i> No-Core Shell Model with Leadership Class Supercomputers

11:00–11:20am	<i>Coffee break</i>
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Chair: Charlotte Elster

11:20–12:20pm	Carlo Barbieri Self-Consistent Green's Function Theory Computations of Medium Mass Isotopes
12:20–1:20pm	Furong Xu CGSM and MBPT Calculations with Realistic Nuclear Forces

1:20–2:20pm	<i>Lunch break</i>
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Chair: Roman Skibiński

2:20–3:20pm	Andrey Shirokov <i>NN</i> Interaction Daejeon16
3:20–4:20pm	Kimiko Sekiguchi Approach to Three Nucleon Forces from Experiment

4:20–4:40pm	<i>Coffee break</i>
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Room 201

Discussion leader: Viktor Efros

4:40–6:00pm	Discussions, additional questions to speakers
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6:30 pm	<i>Welcome party</i>
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Tuesday, September 20

Conference Hall

Chair: Andrey Shirokov

9:00–10:00am	Viktor Efros An Approach to the Computation of Few/Many-Body Multichannel Reactions
10:00–11:00am	Charlotte Elster Reactions with Light Nuclei

11:00–11:20am	<i>Coffee break</i>
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Chair: Kimiko Sekiguchi

11:20–12:20pm	Alexander Motovilov Structure of T -Matrices on Unphysical Energy Sheets and Few- Body Resonances
12:20–1:20pm	Roman Skibiński Modern two-nucleon forces in three-nucleon reactions

1:20–2:20pm	<i>Lunch break</i>
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Chair: Noritaka Shimizu

2:20–3:20pm	Xingbo Zhao Time-dependent Basis Function Approach to Nuclear Scattering
3:20–4:20pm	Kai Wen The Inertial Mass and Collective Path in Nuclear Fusion/Fission Reactions
4:20–5:10pm	Nikolay Khokhlov Deuteron Wave Function and Elastic eD Scattering

5:10–5:30pm	<i>Coffee break</i>
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Room 201

Discussion leader: James Vary

5:30–6:50pm	Discussions, additional questions to speakers
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Wednesday, September 21*Conference Hall***Chair: John Hill**

9:00–10:00am	Joel Lynn Quantum Monte Carlo Calculations with Chiral Effective Field Theory Interactions
10:00–11:00am	Youngman Kim QCD Fossils in Nuclei?

11:00–11:20am	<i>Coffee break</i>
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Chair: Sergey Yakovlev

11:20–12:20pm	Shan-Gui Zhou Nuclear Tetrahedral Shapes from MDC-CDFT
12:20–1:20pm	Junchen Pei Continuum DFT Studies of Exotic Nuclei and Dynamics

1:20–2:20pm	<i>Lunch break</i>
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Chair: Yuri Tshuvil'sky

2:20–3:20pm	Noritaka Shimizu Large-Scale Shell-Model Studies for Exotic Nuclei and Nuclear Level Densities
3:20–4:20pm	Alexander Mazur Analysis of Resonant States within the SS-HORSE Method
4:20–4:50pm	Myeong-Hvan Mun Study of Low-Energy Phase Shift using NCSM with Three Different NN Interactions

4:50–5:10pm	<i>Coffee break</i>
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*Room 201***Discussion leader: Luigi Coraggio**

5:10–6:30pm	Discussions, additional questions to speakers
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Thursday, September 22

Conference Hall

Chair: Alexander Motovilov

9:00–10:00am	Olga Rubtsova Solution of Few-Body Scattering Problems in a Discrete Representation by Using GPU
10:00–11:00am	Luigi Coraggio Large-Scale Shell-Model Challenges within the RIB Era

11:00–11:20am	<i>Coffee break</i>
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Chair: Carlo Barbieri

11:20–12:20am	Sergey Yakovlev Scattering in the System of Three Charged Particles
12:20–1:00pm	Sergey Zaytsev Electron Correlations in the Framework of Quasi Sturmian Functions Approach

1:00–2:00pm	<i>Lunch break</i>
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Room 201

Discussion leader: Furong Xu

2:00–3:10pm	Discussions, additional questions to speakers
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3:10–7:30pm	<i>Excursion</i>
7:30pm	<i>Conference dinner</i>

Friday, September 23*Conference Hall***Chair: Youngman Kim**

9:00–10:00am	John Hill Highlights from the 15 Year Heavy Ion Program at the PHENIX Experiment
10:00–11:00am	Yurii Tchuviľ'sky Asymptotic Properties of Resonance and Weakly-Bound States in the Shell-Model Calculations

11:00–11:20am	<i>Coffee break</i>
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Chair: Shan-Gui Zhou

11:20–12:10pm	Alexander Soloviev The Algebraic Versions of the Resonating Group Model and the Orthogonality Conditions Model as Fundamentals of Theoretical Approaches for Describing Nuclear Reactions
12:10–12:50pm	Igor Mazur Energy and Width of the Resonance in the $4n$ System
12:50–1:20pm	Vasily Kulikov S -matrix Method for Extrapolation of the Results of No-Core Shell Model Calculations

1:20–2:20pm	<i>Lunch break</i>
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Public Lectures

2:20–3:20pm	James Vary Role of Supercomputers in Basic Science Simulations
3:20–4:20pm	Victor Efros Quantum Mechanics of Reactions with Many Open Channels (in Russian)

4:20–4:40pm	<i>Coffee break</i>
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*Room 201***Discussion leader: Andrey Shirokov**

4:40–6:00pm	Discussions, additional questions to speakers
6:00pm	<i>Conference closing</i>

Saturday, September 24**Public Lectures**

10:00–11:00am	Yurii Tchuviľ'sky Current Status and Prospects of Nuclear Physics Research (in Russian)
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