

Program of International Conference on Nuclear Theory in the Supercomputing Era — 2014 (NTSE-2014)

Sunday, June 22

Arrival

3:00 pm	<i>Picnic</i>
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Monday, June 23

Conference Hall

9:30–2:50pm	<i>Registration</i>
10:00–10:50am	<i>Conference opening</i>

10:50–11:20am	<i>Coffee break</i>
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Chair: Yutaka Utsuno

11:20–12:10pm	Takashi Nakatsukasa Time-dependent density-functional calculation of nuclear re- sponse functions
12:10–1:00pm	Jun Terasaki Effects of QRPA correlations on nuclear matrix elements of neu- trinoless double-beta decay through overlap matrix

1:00–2:00pm	<i>Lunch break</i>
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Chair: Kazuhiro Yabana

2:00–2:50pm	Junchen Pei Exotic halos and collective excitations in weakly-bound deformed nuclei
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2:50–3:10pm	<i>Coffee break</i>
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Room 201

Chair: Andrey Shirokov

3:10–5:00pm	Discussions, additional questions to speakers
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6:00 pm	<i>Welcome party</i>
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Tuesday, June 24

Conference Hall

Chair: Alexander Motovilov

9:00–9:50am	Yutaka Utsuno Large-scale shell-model studies for exotic nuclei: probing shell evolution
9:50–10:40am	Alexander Volya Computational approaches to many-body dynamics of unstable nuclear systems

10:40–11:10am	<i>Coffee break</i>
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Chair: Takashi Abe

11:10–12:00pm	Kazuhiro Yabana Cluster structures of light nuclei superposing multiple Slater determinants
12:00–12:50pm	Yurii Tchuvil'sky Study of cluster reactions in advanced shell model approaches

1:00–2:00pm	<i>Lunch break</i>
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Chair: Takashi Nakatsukasa

2:00–2:50pm	Furong Xu From Gogny force to shell-model calculations
2:50–3:40pm	Tomáš Dytrych Emergence of simple patterns in complex atomic nuclei from first principles
3:40–4:10pm	Andrey Chibisov <i>Ab initio</i> investigation of oxygen absorption by titanium nanoparticles

4:10–4:30pm	<i>Coffee break</i>
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Room 201

Chair: Jun Terasaki

4:30–6:10pm	Discussions, additional questions to speakers
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Wednesday, June 25

Conference Hall

Chair: Evgeny Epelbaum

9:00–9:50am	Leonid Blokhintsev Vertex Functions and Asymptotics of Nuclear Bound-State Wave Functions
9:50–10:40am	Alexander Motovilov Bounds on variation of the spectrum and spectral subspaces of a few-body Hamiltonian

10:40–11:10am	<i>Coffee break</i>
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Chair: Furong Xu

11:10–12:00pm	Charlotte Elster The Coulomb Problem in Momentum Space without Screening
12:00–12:50pm	Sergey Yurev Three-nucleon calculations within Bethe-Salpeter approach with separable kernel

1:00–2:00pm	<i>Lunch break</i>
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Chair: Kimiko Sekiguchi

2:00–2:50pm	Konstantin Kouzakov Problems of theoretical interpretation of COLTRIMS results on ionization of helium by fast bare-ion impact
2:50–3:10pm	Maxim Aleshin Quasi-Sturmian functions in the continuum spectrum problems
3:10–4:00pm	Sergey Zaytsev Convolutated quasi-Sturmians basis in Coulomb three-body problems

4:00–4:20pm	<i>Coffee break</i>
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Room 201

Chair: Tomáš Dytrych

4:20–6:00pm	Discussions, additional questions to speakers
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Thursday, June 26

Conference Hall

Chair: Leonid Blokhintsev

9:00–9:50am	James Vary <i>Ab Initio</i> no core shell model — recent results and future prospects
9:50–10:40am	Takashi Abe No-core Monte Carlo shell model in light nucle

10:40–11:00am	<i>Coffee break</i>
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Chair: Ruprecht Machleidt

11:00–11:50am	Andrey Shirokov Recent results obtained with JISP16
11:50–12:40pm	Alexander Mazur <i>J</i> -matrix analysis of resonant states in the shell model
12:40–1:00pm	Igor Mazur <i>J</i> -matrix analysis of resonant states in the shell model: charged particles

1:00–2:00pm	<i>Lunch break</i>
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Chair: Alexander Volya

2:00–2:50pm	Ik Jae Shin <i>Ab initio</i> study of natural and unnatural parity states of ${}^6\text{Li}$
2:50–3:40pm	Nikolay Khokhlov Electromagnetic deuteron form factors in point form of relativistic quantum mechanics

3:40–4:00pm	<i>Coffee break</i>
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Room 201

Chair: Junchen Pei

4:00–5:50pm	Discussions, additional questions to speakers
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6:00 pm	<i>Conference dinner</i>
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Friday, June 27*Conference Hall***Chair: Charlotte Elster**

9:00–9:50am	Kimiko Sekiguchi Approach to three nucleon forces from experiment
9:50–10:40am	Evgeny Epelbaum Chiral nuclear forces: State of the art and future perspectives

10:40–11:00am	<i>Coffee break</i>
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Chair: James Vary

11:00–11:50am	Ruprecht Machleidt Chiral EFT and nuclear forces: Are we in trouble?
11:50–1:30pm	Discussions, additional questions to speakers (<i>Room 201</i>)
1:30–2:00pm	Conference closing (<i>Conference Hall</i>)

1:00–2:00pm	<i>Lunch break</i>
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3:00–5:00 pm	<i>Excursion</i>
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5:00 pm	<i>Picnic</i>
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