



International Workshop
 “Nuclear Theory
 in the Supercomputing Era”
www.ntse-2012.khb.ru

Program

Pacific National University,
 Khabarovsk, Russia.
 June 18 – 22, 2012

Sunday, June 17.

Arrival, hotel registration. Evening: walking
 in the Khabarovsk downtown area, central park.

Monday, June 18.

9:00 – 16:00 Conference Hall

9:30 – 10:00	Registration
10:00 – 10:45	Workshop opening. A. E. Zubarev, Pacific National University, First Vice-President for Strategic Development and International Cooperation, professor V. V. Chudov, First Deputy Chairman of the Krai Government for the modernization and industrial policy. J. P. Vary, Iowa State University, professor
10:45 – 11:20	coffee break
<i>Chair: Andrey M. Shirokov</i>	
11:20 – 12:20	James P. Vary. <i>Ab initio</i> nuclear structure – recent developments.
12:20 – 13:20	Yutaka Utsuno. Monte Carlo shell model and its applications to exotic nuclei.
13:30 – 14:30	lunch
<i>Chair: Jerry P. Draayer</i>	
14:30 – 15:30	Takashi Abe. Application of the Monte Carlo shell model to the <i>ab initio</i> no core calculations
15:30 – 16:00	Vasiliy A. Kulikov. Deuteron-equivalent phase-equivalent transformation and its manifestation in many-body systems.
16:00 – 16:20	coffee break
16:20 – 18:00	<i>room 201</i> Round table discussion, additional questions to speakers
18:00	Welcome party. <i>Main building, room 215</i>

Tuesday, June 19.

9:00 – 16:00 Conference Hall

<i>Chair: Konstantin A. Gridnev</i>	
9:00 – 10:00	Jerry P. Draayer. Symmetry-adapted no-core shell model for light nuclei
10:00 – 11:00	Tomas Dytrych. Symmetry-Guided <i>Ab Initio</i> Approach to Light and Medium Mass Nuclei
11:00 – 11:25	coffee break
<i>Chair: Yutaka Utsuno</i>	
11:25 – 12:25	Leonid D. Blokhintsev. Analytic continuation methods in nuclear reaction theory and indirect approaches in nuclear astrophysics.
12:25 – 13:25	Viktor S. Vasilevsky. On nature of bound and resonance states in ^{12}C .
13:30 – 14:30	lunch
<i>Chair: Sidney A. Coon</i>	
14:30 – 15:30	Yurii M. Tchuvil'sky. Composite particle interaction
15:30 – 16:00	Tatjana V. Chuvil'skaya. The use of data-containing codes for the description of nuclear experimental results.
16:00 – 16:20	coffee break
16:20 – 18:00	<i>room 201</i> round table discussion, additional questions to speakers
18:00	dinner

Wednesday, June 20.

9:00 – 11:30 – Conference Hall

9:00 – 10:00	Public lecture. James P. Vary New perspectives on the atomic nucleus
10:20 – 11:20	Public lecture. Jerry P. Draayer . The Holy Grail of Physics: Uncovering Simplicity within Complexity.
11:20 – 11:40	coffee break
11:30- 13:30	<i>room 201</i> free discussion
13:30 – 14:30	lunch
14:30	<i>Excursions. Khabarovsk museum.</i>
18:00	dinner

Thursday, June 21.

9:00 – 16:00 – Conference Hall

<i>Chair: Leonid D. Blokhintsev</i>	
9:00 – 10:00	Konstantin A. Gridnev . Extreme neutron rich sector of the nuclear chart: new horizons.
10:00 – 11:00	Andrey M. Shirokov . Scattering and nuclear structure with oscillator basis.
11:00 – 11:25	coffee break
<i>Chair: Tomas Dytrych</i>	
11:25 – 12:25	Sergey L. Yakovlev . Computing Binary Scattering and Breakup in Three Body System.
12:25 – 13:25	Sergey A. Zaytsev . Square-integrable basises in the many-body Coulomb scattering problem.
13:30 – 14:30	lunch
<i>Chair: Yurii M. Tchuvil'sky</i>	
14:30 – 15:00	A. Mazur Development of J-matrix approach for the analysis of resonant states obtained in no core shell model
15:00 – 15:30	Vladimir A. Goy . Witten parameter and HPC on the lattice.
15:30 – 16:00	coffee break
16:20 – 18:00	<i>room 201</i> Round table discussion, additional questions to speakers
18:00	Workshop dinner

Friday, June 22.

9:00 – 13:30 – Conference Hall

<i>Chair: Sergey L. Yakovlev</i>	
9:00 – 11:00	Sidney A. Coon . Truncation and Extrapolation of <i>Ab initio</i> Calculations in a Finite Model Space.
10:00 – 11:00	Youngman Kim . Overview on the Rare Isotope Science Project in Korea
11:00 – 11:20	coffee break
11:20 – 12:30	<i>room 201</i> Round table discussion, additional questions to speakers
12:30 – 13:30	<i>Main building, room 206</i> Round table discussion of international scientific collaboration prospects. Workshop closing
13:30 – 14:30	lunch
14:30 – 19:00	<i>Excursion</i>