

# International Conference Nuclear Theory in the Supercomputing Era – 2024 (NTSE-2024)

Dedicated to the memory of Prof. Ruprecht Machleidt

Busan, Republic of Korea, December 1 – 7, 2024  
[indico.ibs.re.kr/event/638](http://indico.ibs.re.kr/event/638)

NTSE-2024 is the eighth in a series of international conferences that was initiated with HITES-2012 and NTSE-2012. Subsequently, the series continues with the NTSE title. The conference focuses on forefront challenges in physics, namely the fundamentals of nuclear structure and reactions, the origin of the strong inter-nucleon interactions from QCD, and computational nuclear physics with leadership class computer facilities to provide forefront simulations leading to new discoveries. The NTSE-HITES conferences are aimed to bring together nuclear theorists, computer scientists and applied mathematicians.

Previous NTSE-HITES conferences:

- NTSE-2023: June 4–6, 2023, Institute of Modern Physics Chinese Academy of Sciences, Lanzhou, China
- NTSE-2018: October 29 – November 2, 2018, IBS Headquarters, Daejeon, Korea
- NTSE-2016: September 19–23, 2016, Pacific National University, Khabarovsk, Russia
- NTSE-2014: June 23–27, 2014, Pacific National University, Khabarovsk, Russia
- NTSE-2013: May 13–17, 2013, Iowa State University, Ames, Iowa, USA
- NTSE-2012: June 18–22, 2012, Pacific National University, Khabarovsk, Russia
- HITES-2012: June 4–7, 2012, New Orleans, Louisiana, USA

## Scientific Advisory Committee

James Vary (Chair), Iowa State University, USA  
Leonid Blokhintsev, Moscow State University, Russia  
Stanley Brodsky, SLAC-Stanford, USA  
Mark Caprio, University of Notre Dame, USA  
Victor Efros, Russian Research Centre Kurchatov Institute, Russia  
Charlotte Elster, Ohio University, USA  
Evgeny Epelbaum, University of Bochum, Germany  
Christian Forssen, Chalmers University, Sweden  
Gaute Hagen, Oak Ridge National Laboratory, Tennessee, USA  
Heiko Hergert, Michigan State University, Michigan, USA  
Youngman Kim, Institute for Basic Science, Republic of Korea  
Pieter Maris, Iowa State University, USA  
Alexander Mazur, Pacific National University, Russia  
Alexander Motovilov, Joint Institute for Nuclear Research, Russia  
Petr Navrátil, TRIUMF, Canada  
Witold Nazarewicz, Michigan State University, USA  
Esmond Ng, Lawrence Berkeley National Laboratory, USA  
Giuseppina Orlandini, Università di Trento, Italy  
Takaharu Otsuka, University of Tokyo, Japan  
Wayne Polyzou, University of Iowa, USA  
Francesca Sammarruca, University of Idaho, USA  
Kimiko Sekiguchi, Tohoku University, Japan  
Andrey Shirokov, Moscow State University, Russia  
Nadya Smirnova, CENBG, France  
Praveen C. Srivastava, Indian Institute of Technology Roorkee, India  
Furong Xu, Peking University, China  
Xingbo Zhao, Institute of Modern Physics, China

## Sponsors:



## Important dates (deadlines):

- October 17, 2024: for submission of titles and abstracts of the talks.
- October 17, 2024: for registration.

## Organizing Committee

Youngman Kim (Chair), Institute for Basic Science, Republic of Korea  
Andrey Shirokov (Vice Chair), Moscow State University, Russia  
James Vary (Vice Chair), Iowa State University, USA  
Igor Mazur (Scientific secretary), Institute for Basic Science, Republic of Korea  
Alexander Mazur, Pacific National University, Russia  
Ik Jae Shin, Institute for Basic Science, Republic of Korea  
Praveen C. Srivastava, Indian Institute of Technology Roorkee, India

## Local Organizing Committee

Youngman Kim, Institute for Basic Science, Republic of Korea  
Seung-il Nam, Pukyong National University, Republic of Korea  
Ik Jae Shin, Institute for Basic Science, Republic of Korea  
Igor Mazur, Institute for Basic Science, Republic of Korea

## Contacts

Igor Mazur,  
Conference Scientific Secretary

### Address:

Center for Exotic Nuclear Studies,  
Institute for Basic Science,  
Daejeon 34126, Republic of Korea

Phone: +82-42-878-9626

E-mail: [ntse2024@ibs.re.kr](mailto:ntse2024@ibs.re.kr)