



The 12th International Conference on Direct Reactions with Exotic Beams DREB2024

Wiesbaden, Germany, June 24th – 28th, 2024

Second Circular

The 12th international conference on Direct Reactions with Exotic Beams (DREB2024) will be held in Wiesbaden, Germany, from June 24th to 28th, 2024. This DREB conference is part of the biennial series, which began in 1999 at MSU, East Lansing, at the initiative of physicists working in the field from MSU, IPN-Orsay, and FSU. The following meetings were held at Orsay (2001), Guildford (2003), East Lansing (2005), Wako (2007), Tallahassee (2009), Pisa (2012), Darmstadt (2014), Halifax (2016), Matsue (2018), and Santiago de Compostela (2022).

Scientific program

The scientific program will be devoted to the latest experimental and theoretical research and developments in nuclear reactions with exotic nuclei. The topics will include the following subjects relevant to direct reactions:

- Spectroscopy of exotic nuclei
- Shell structure and evolution
- Nuclear force and short-range correlations
- Bulk properties and collective excitations
- Nuclear astrophysics
- Ab initio methods for structure and reactions
- Advances in direct reaction theory
- New instrumentation for direct reaction studies

The program of the meeting will consist of contributed presentations and posters to be selected based on the submitted abstracts. The conference program will focus on new results, in particular presentations of yet unpublished results. We strongly encourage junior and early-career researchers to participate. In addition, DREB24 will feature two keynote opening talks, a special talk on direct-reaction history and DREB for the occasion of the silver birthday of the conference, and a perspective talk:

- Alexandra Gade (FRIB, USA), Keynote talk on experiment
- Kazuyuki Ogata (Kyushu University, Japan), Keynote talk on theory
- Yorick Blumenfeld (IJCLab, France), Special talk on DREB
- Olivier Sorlin (GANIL, France), Perspective talk

Participants are warmly invited to register and submit abstracts for a presentation or a poster through the indico webpage of the conference <https://indico.gsi.de/event/17568/>, where additional information can be found.

Social program

The social program will include an excursion on Wednesday afternoon followed by the conference dinner. Busses will take you either to Eberbach Monastery where you can explore this historical monastery and local wineries or to FAIR with a tour through the construction site of the future facility.

The conference dinner will take place on a boat, starting in Rüdesheim. We will follow the Rhine river to Lorelei and back. Busses will take you back to Wiesbaden.

Important dates

First circular and opening of registration	August 22 nd , 2023
Abstract submission open	August 22 nd , 2023
Second circular	January 1 st , 2024
Deadline for abstract submission	January 25th, 2024
Notification of oral/poster presentation	February 11 th , 2024
Early registration deadline	March 14th, 2024
Deadline for registration	June 1 st , 2024
Beginning of DREB24	June 24 th , 2024

International Advisory Committee

N. Aoi (RCNP, Japan), M. Assié (IJCLab, France), D. Bazin (FRIB, USA), C. Bertulani (Texas A&M Commerce, USA), A. Bonaccorso (INFN-Pisa Italy), P. Capel (JGU Mainz, Germany), W. Catford (University of Surrey, UK), K. Cook (ANU, Australia), D. Cortina-Gil (University of Santiago de Compostela, Spain), H. Crawford (LBNL, USA), W. Dickhoff (Washington University Saint Louis, USA), M. Dupuis (CEA, France), F. Flavigny (LPC Caen, France), H. Fynbo (Aarhus University, Denmark), S. Freeman (University of Manchester, UK; CERN, Switzerland), B. Kay (ANL, USA), A. Moro (University of Sevilla, Spain), D. Morrissey (FRIB, USA), T. Nakamura (Tokyo Institute of Technology, Japan), F. Nunes (FRIB, USA), N. Orr (LPC Caen, France), D. Y. Pang (Beihang University, China), G. Rogatchev (Texas A&M Commerce, USA), K. Sekiguchi (Tokyo Institute of Technology, Japan), S. Shimoura (RIKEN Nishina Center, Japan), V. Soma (CEA, France), T. Uesaka (RIKEN Nishina Center, Japan), N. Timofeyuk (University of Surrey, UK), Y. L. Ye (Peking University, China).

Local Organizers

Thomas Aumann (TU Darmstadt, GSI), Meytal Duer (TU Darmstadt), Alexandre Obertelli (TU Darmstadt), Haik Simon (GSI), Kathrin Wimmer (GSI).

Contact: dreb2024@ikp.tu-darmstadt.de