

GSII

FAIR



26th

International Workshop on Electron Cyclotron Resonance Ion Sources

15.-19. September 2024

Welcome Hotel City Center
Darmstadt
GERMANY



Picture: © J. Mäder

<https://indico.gsi.de/event/17948/overview>



CONFERENCE PRESENTATION

The 26th International Workshop on ECR Ion Sources (ECRIS2024) will take place in Darmstadt, Germany from September 15th to 19th 2024.

The workshop aims to highlight the state of the art, the developments, and the most recent achievements in the field of Electron Cyclotron Resonance Ion Sources and related science and technology.

The ECRIS2024 Workshop is the 26th in a series of conferences, that dates back to 1978 in Karlsruhe, Germany, and recently took place in Busan, Korea (2016), Catania, Italy (2018), East Lansing, USA (2020), and Gandhinagar, India (2022).

The host of the workshop is the GSI Helmholtz Research Centre for Heavy Ions (Helmholtzzentrum für Schwerionenforschung). GSI operates a worldwide leading accelerator facility for research purposes. Currently being built on campus, FAIR is an international accelerator facility for research with antiprotons and ions, developed and constructed in cooperation with international partners. It is one of the world's largest construction projects for international cutting-edge research. The GSI accelerators will become part of the future FAIR facility and serve as the first acceleration stage.

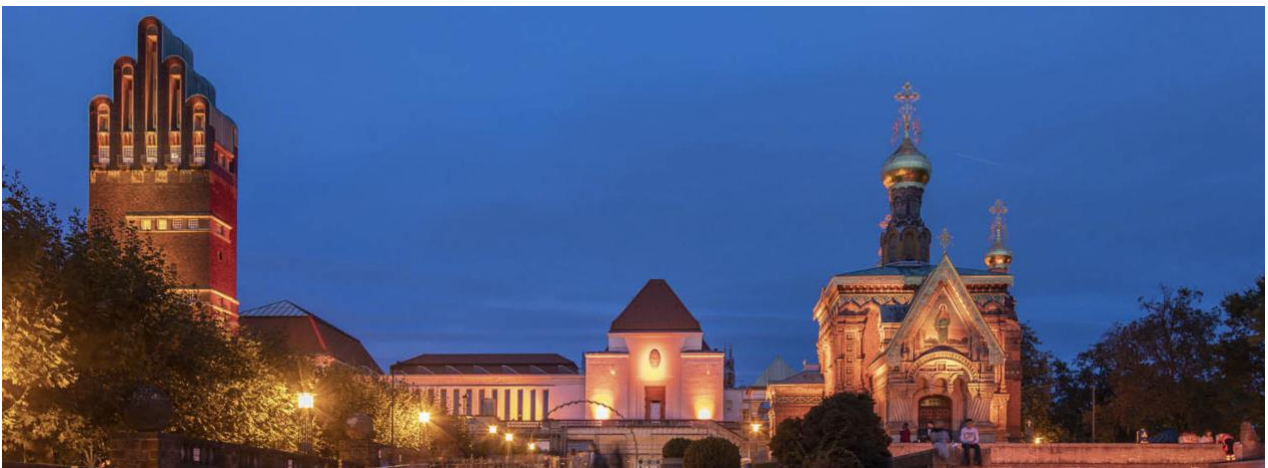
The workshop will take place at the Welcome Hotel in the city center of Darmstadt. Darmstadt is the science and high-tech center of the metropolitan region Rhein-Main.

The webpage of the event is available at: <https://indico.gsi.de/event/17948/>.

CONFERENCE VENUE



Darmstadt is one of the few cities honored by having a chemical element, the Darmstadtium discovered in 1994, named after it. The city is home to the Technical University, one of the country's largest polytechnic institutions, as well as 3 institutions of the Fraunhofer Society research organizations. Internationally renowned organizations such as the space organizations ESOC operated by ESA & EUMETSAT, as well as GSI round off the profile as a city of science. It also has a rich cultural heritage. Most notably it was a center of the Art Nouveau movement ("Jugendstil") and is hence awarded a UNESCO world heritage site, the "Mathildenhöhe". Today the Institut Mathildenhöhe impresses countrywide and internationally with respected exhibitions. In addition, the Hessische Landesmuseum (Hessian county museum), the Staatstheater Darmstadt (City Theater), the Kunsthalle (Art Halls) and numerous galleries and the Central Station again and again have new and interesting exhibitions on offer. Also worth a visit are the new landmarks of Darmstadt, the house of science & congresses, the Darmstadtium, and the Waldspiral by Friedensreich Hundertwasser.



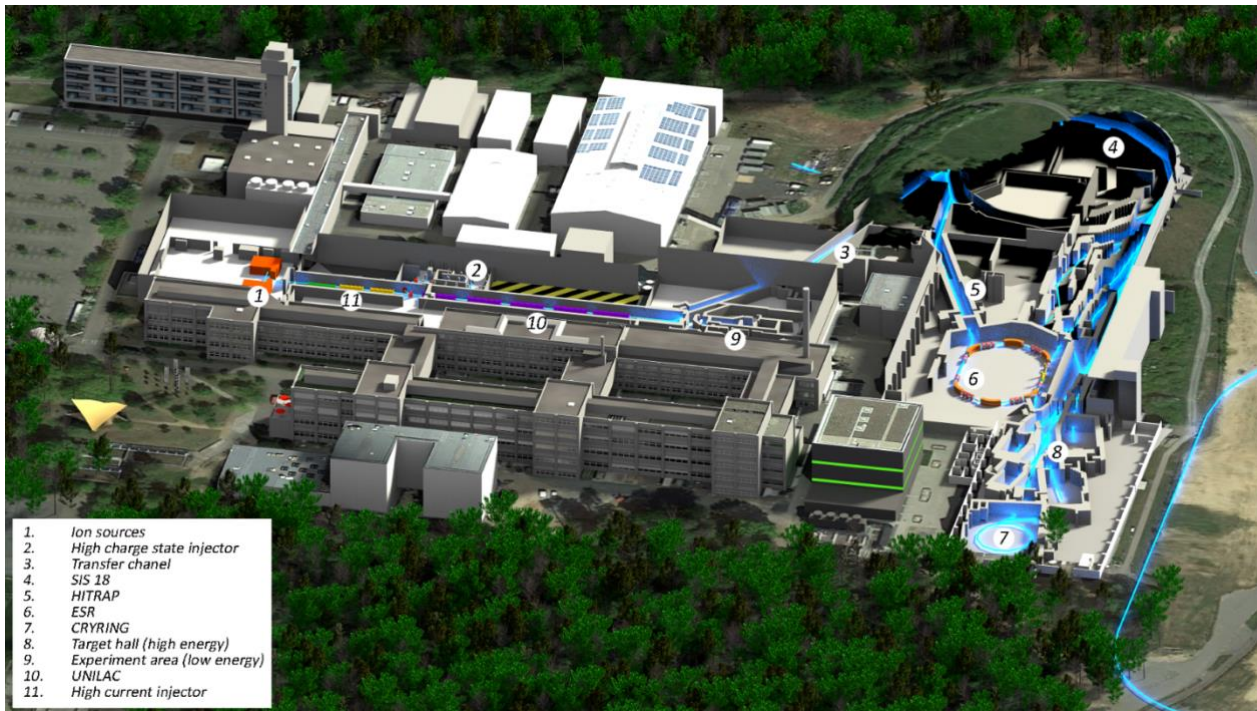


The conference takes place in the "[Welcome Hotel](#)" in the center of Darmstadt and right nearby it's most prominent park, the English-style former royal garden "Herrngarten". The venue is easy to reach via a direct bus connection between the airport Frankfurt and Darmstadt, the so-called "Airliner" ([link](#)), or in general by public transport (local transport [rmv.de](#), long distance transport [bahn.de](#)).



THE HOST

GSI Helmholtzzentrum für Schwerionenforschung GmbH



The **GSI Helmholtzzentrum für Schwerionenforschung** in Darmstadt operates a worldwide leading accelerator facility for research purposes. Researchers from around the world use this facility for experiments that help them make fascinating discoveries in basic research. In addition, they continually develop new and impressive applications.

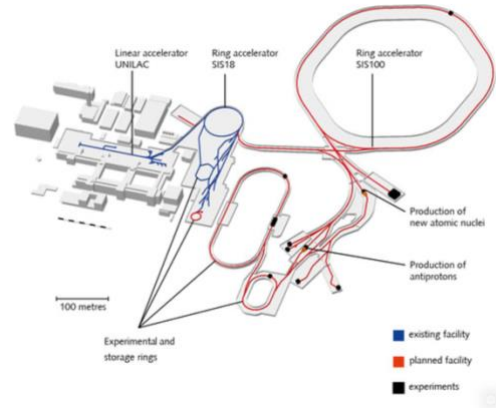
The goal of the scientific research conducted at GSI is to reach a better understanding of the structure and behavior of the world that surrounds us.

About 1520 employees are working at GSI. In addition, every year approximately 1200 researchers from universities and other research institutes around the world come to use the facility for experiments.

GSI was founded in 1969 and it is a limited liability company (GmbH). Shareholders are the German Federal Government with 90 %, the State of Hesse with 8 %, the State of Rhineland-Palatinate, and the Free State of Thuringia with 1 % each. They are represented in the GSI supervisory board by the Federal Ministry of Education and Research and the respective state ministries. GSI is a member of the Helmholtz Association, Germany's largest research organization.

More information are available at the webpage of the institute:
<https://www.gsi.de/en/start/news>.

FAIR Facility for Antiproton and Ion Research GmbH



At GSI, FAIR is currently being built, an international accelerator facility for the research with antiprotons and ions which is being developed and constructed in cooperation with international partners. It is one of the world's largest construction projects for international cutting-edge research. The FAIR project was initiated by the scientific community and researchers of GSI. The GSI accelerators will become part of the future FAIR facility and serve as the first acceleration stage.

For the realization of FAIR, the FAIR GmbH, an international company under German law, was founded. The shareholders of FAIR belong to nine countries: Finland, France, Germany, India, Poland, Romania, Russia, Slovenia, Sweden. The United Kingdom is associated. The Czech Republic is aspirant partner.

The GSI GmbH is the German shareholder and also the main shareholder of the international FAIR GmbH. GSI is responsible for the development, production and testing of substantial components of the FAIR accelerator facility and the experiment setups. The efficient cooperation of FAIR and GSI is enabled by the joint organization of both GmbHs under one Management Board.

Beyond the shareholders, about 3,000 scientists from about 50 countries take part in the development of the experiments and the scientific program of FAIR. They will come to FAIR and GSI in Darmstadt as visiting scientists in the future to use the facility for research.



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SCIENTIFIC PROGRAM

The scientific program will cover the following topics of Electron Cyclotron Resonance Ion Sources and related science and technology:

- New development and status reports
- New concepts and next generation
- Fundamental process and plasma studies
- ECR-based charge breeders
- Radioactive ion beams
- Applications and diagnostics
- Beam extraction and transport
- Source modelling

TENTATIVE TIMETABLE AND SESSIONS

To cover the main topics of the scientific program oral sessions and poster sessions will be included. A tentative timetable is already available and it will be adjusted according to the submitted contributions.

Sunday	Monday	Tuesday	Wednesday	Thursday
	8:00-8:40 Registration			
	08:40-9:00 Welcome			8:30 Bus to GSI
	9:00-10:30 Oral session	9:00-10:30 Oral session	9:00-10:30 Oral session	9:00-10:30 Oral session
	10:30-11:00 Coffee break	10:30-11:00 Coffee break	10:30-11:00 Coffee break	10:30-11:00 Coffee break
	11:00-12:30 Oral session	11-12:30 Oral session	11:00-12:30 Oral session	11:00-12:30 Geller Prize & closing remarks
	12:30-14:00 LUNCH	12:30-14:00 LUNCH	12:30-14:00 LUNCH	12:30-14:00 LUNCH
	14-15:50 Oral session	14:00-15:50 Oral session		14:00-16:00 GSI visit
18-21:00 Registration	15:50-16:10 Coffee break	15:50-16:10 Coffee break	14:00-19:00 Excursion	16:00 Bus to hotel or airport
	16:10 - 18:00 Poster session	16:10-18:00 Poster session	19:00-22:00 Social Dinner	

The **oral presentations** will take place from Monday to Wednesday in the dedicated conference room of the Welcome Hotel. On Thursday, September 19th, the last session of the workshop including the closing remarks will be held at the main lecture hall of GSI, Darmstadt.

The **poster sessions** will be held on Monday and Tuesday afternoons. The posters should be displayed for the whole day of the assigned session and should be removed at the end of the last poster session. It is requested that at least one author should be attended during the poster session to present the poster and for discussion. The dimensions of the poster should fit into the assigned boards. Mounting material will be provided. More Detailed information concerning the poster session including the panel board dimensions will be distributed.



ABSTRACT SUBMISSION

All contributions to ECRIS2024 will be published on the JACoW platform. All primary authors are requested to have a profile and associated account in the JACoW repository, before submitting an abstract.

Along with submitting the abstract text and listing authors with their respective affiliations, it is requested to specify the topic from those listed in the scientific program and the preferred presentation format: oral or poster.

All the abstracts will be reviewed by the Local Organizing Committee and the acceptance notification will be mailed, indicating whether they are allocated for oral presentation or posters. Up to five pages will be allocated for all the contributed papers. No distinction will be made between oral and poster presentations in the conference proceedings.

Detailed instructions together with the opening and closing dates for the abstract submission will be published soon on the webpage of the event.

REGISTRATION

The registration for the workshop is handled through a dedicated page on the website of the workshop. The following participant's data are requested to be filled in the registration form:

- Name
- Institution/Affiliation
- Address
- Email
- Telephone

The conference fee includes:

- Registration for the workshop
- Participation in the sessions
- Lunches at Welcome Hotel (from Monday the 16th to Wednesday the 18th)
- Lunch at the Canteen of GSI on Thursday the 19th
- Participation in all social events:
 - Welcome reception on Sunday the 15th
 - Excursion and social dinner on Wednesday the 18th,
 - Visit of GSI on Thursday the 19th,
 - Access to all the coffee breaks,
- The material for the conference
- The publication of the proceeding to the JACoW Platform.



In the registration form, the instructions for the payment of the fee are given. The payments should be done exclusively in Euro by a credit card or by bank transfer. The details concerning the payment will be indicated in the registration form.

The due fees are:

- Discounted fee for students and retirees 500 €
- Discounted fee for early registration before June 14th 550 €
- Full fee after June 14th 690 €
- Accompanying person fee 290 €

A letter of support from the department head or supervisor is requested to confirm the status and eligibility of the students. The letter can be uploaded via the registration form or must be sent to ecris2024@gsi.de.

Detailed information concerning the registration together with the opening and closing dates are available on the webpage of the event.

ACCOMMODATION

The Welcome hotel has a reserved number of rooms for the participants of the Workshop. The price per night (breakfast included) will be around 150 €.

A link for the room reservation will be included in the accommodation section of the webpage of the event. Alternatively, a reservation email may be sent to dar.reservierung@welcome-hotels.com by indicating “ECRIS2024” in the subject of the email.

In addition, several rooms will be available at the guest house of GSI. The priority in the reservation will be given to students. The price of this accommodation (breakfast included) will be around 50 € per night. Please take into account that the distance between the institute and the conference center is around 8 km. It takes around 45 minutes by public transport (Bus+Tram) to get to the conference Hotel from GSI. For the relevant information together with the reservation link please send an email to ecris2024@gsi.de.

Additionally, there are several hotels close to the conference hotel in the city center of Darmstadt. For an updated list of recommended alternative hotels, please write an email to ecris2024@gsi.de.

VISA INFORMATION

An attendance of scientists coming from different countries around the world is expected for ECRIS2024. Traveling to Germany has never been more organized and stress-free, no matter what the purpose of your travel is. Due to the Schengen Agreement of 1985, the citizens of the Schengen member states can access Germany by exhibiting a valid identification document and can travel visa-free throughout the territory. Currently, citizens of 62 countries can



enter Germany visa-free for the purpose of tourism/visiting and business for periods shorter than 90 days within a 180-day period.

The list of countries together with the information to get a VISA to enter Germany are available at the link: <https://www.germany-visa.org>

GSI can provide an official invitation letter to the participants requiring it for obtaining a visa. The request must be addressed to ecris2024@gsi.de.

SPONSORS AND EXHIBITORS

The organizers of ECRIS2024 offer the possibility to sponsor this event. The sponsors have the opportunity to

- meet the ion accelerator community and establish contacts and relationships with leading scientists and engineers.
- gain visibility and promote products and technologies;
- learn about collaboration opportunities with international accelerator facilities, research laboratories, and universities.
- get long-term visibility: the logo and name are listed on the conference website and included in the Conference Proceedings

The financial support of the sponsors will be used mainly to reduce the conference fee for students to foster early career contacts in the community and also to our industrial partner.

The offered sponsorship packages are available on the website of the event.



GELLER PRIZE



In recognition of outstanding contributions to the development of ECR Ion Sources and to encourage promising young scientists, PANTECHNIK - the world leader in commercial ECR ion sources - awards the "Richard Geller PRIZE" on the occasion of the workshop.

This prize will be awarded for the seventh time and it was established by Pantechnik 16 years ago, during the 18th ECRIS Workshop in Chicago (USA, 2008). An ad-hoc Geller Prize Award Committee will be established to choose the winner of the "Richard Geller PRIZE".

Nominations of candidates (who will be under 41 years of age on December 31st, 2024), including a one-page description of the nominee's research work, should be submitted to the committee chair, Fabio Maimone, (f.maimone@gsi.de) by June 1st, 2024.

SOCIAL EVENTS

Welcome Reception



The welcome reception will take place on Sunday the 15th at 18:00 at the Welcome Hotel.

Excursion and conference dinner

The social activities include an excursion to the city of Frankfurt am Main. On Wednesday the 18th after lunch the participants will be taken by bus to Frankfurt's downtown of the city near the Main river. The cruise of the river will allow the participants to get a sightseeing tour of the city. The river cruise on the Main is a great way to discover the city with accompanying commentaries in English about the most important sights along the river.



The social dinner will be held in a restaurant inside the downtown of Frankfurt city after the conference excursion.



Visit of GSI/FAIR



On Thursday the 19th, a guided tour of GSI/FAIR will take place. The Thursday conference session will take place at GSI/FAIR. After the session, a light lunch at the canteen of GSI will be offered before starting the tour of the laboratory.

Visit of Heidelberg and the Heidelberg Ion Beam Therapy Center (HIT)

On Friday the 20th a visit to the city of Heidelberg together with the Heidelberg Ion Beam Therapy Center will be offered. The participants interested in the visit can receive upon request the necessary information for traveling to Heidelberg and to Heidelberg Ion Beam Therapy Center (HIT) on their own by using public transportation.

