

European Physics Olympiad 2023 - Third Circular (03.05.2023)

Dear students, leaders and observers of EuPhO 23,

in about six weeks we'll finally meet for the 7th European Physics Olympiad in Hannover. An enthusiastic team of markers, guides, organisers, and many other people will do their best to make EuPhO 23 a memorable experience in the best way imaginable.

We look forward to welcome approximately 185 students and 75 leaders/observers from the following 39 countries:

From Europe: Austria, Azerbaijan, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Estonia, France, Georgia, Germany, Hungary, Iceland, Italy, Kazakhstan, Kosovo, Latvia, Lithuania, Luxembourg, Macedonia, Moldova, Poland, Romania, Slovakia, Slovenia, Sweden, Switzerland, Turkey

Guest Teams: Bangladesh, Bolivia, Brazil, Colombia, Kyrgyzstan, Macao (China), Mexico, Saudi Arabia, Singapore, Tajikistan, Turkmenistan, Vietnam.

We now kindly ask all delegations to fill in the forms with team and travel details until May 22, 2023. The forms are available at

team-details.eupho23.de/ and travel-details.eupho23.de/

Below, you will again find some additional information on the competition. Further news on EuPhO 23 will be announced on our website at www.eupho23.de.

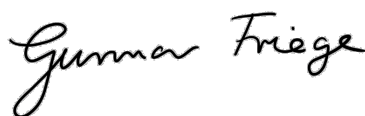
See you in Hannover!

With best regards,



Prof. Jaan Kalda

Tallinn University of Technology
President of EuPhO



Prof. Gunnar Friege

Leibniz University Hannover
Chairman local
organising committee



Dr. Stefan Petersen

Leibniz Institute for Science and
Mathematics Education, Kiel
Chairman local
organising committee

Contact

- In case of questions, delays or any problems you encounter please contact the EuPhO 23 organising team via email at organiser@eupho23.de or give us a call at +49 (0)15678 126785.

Hospitality and travel

- **Hospitality** – We will provide meals, lodging and transportation from the evening of Friday, June 16 to the afternoon of Tuesday, June 20. Should you arrive earlier or depart later we are glad to assist you in finding suitable accommodation and places to eat.
- **Arrival** – On June 16th we will welcome all delegations at their respective point of arrival in Hannover (train station or airport) and accompany them to the registration and/or their accommodation. Late arrivals will be brought directly to the Welfenschloss of the Leibniz University Hannover, the venue of the opening ceremony, and check in at their accommodation afterwards.
- **Departure** – We will escort all teams departing in the morning or afternoon of June 20th to Hannover airport or train station. Travel to the airport will take no more than 45 minutes and to the train station less than 30 minutes. Should you leave later, we will assist you in finding a good connection to get to either the airport or the train station.
- **Guides** – Each student team will be assigned a student guide to help them with all practical matters and to bring them to the venues of the competition. Leaders and observers will also be assigned a small number of guides that will be ready to answer all questions you might have.
- **Student Accommodation** - Students and their guides will be accommodated at Youth Hostel Hanover International (for information see <https://www.jugendherberge.de/en/youth-hostels/hannover-301/portrait/>). The youth hostel is nicely located not far from the town centre and close to the Maschsee, a popular recreational area of Hannover.
- **Leader/Observer Accommodation** - Leaders and Observers will stay at Mercure Hotel Hannover Mitte (for information see <https://all.accor.com/hotel/5391/index.en.shtml>). The Hotel is centrally located and close to the Leibniz University Hannover.
- **Public Transport** – We will equip everybody with tickets for public transport in Hannover which will be used for most transfers. You are also encouraged to find your way around with the help of Google Maps (or any other map service) and your guides.

Problem translation

- **Language and Translation** - The official language of EuPhO is English. The team leaders and observers may translate the problems into the native language of their team members, and may act as translators during moderations. Problem text translations will take place early in the mornings before the examinations.
- **Laptops** - We will not be providing laptops for team leaders and observers to perform the translations and therefore kindly ask you to bring your own laptop with Wi-Fi connectivity.
- **Overleaf** – The translations will take place on Overleaf, a cloud-based LaTeX typesetting platform. Please make sure you have a Overleaf account (a free account is sufficient) for the translations. The procedure will be the following:
 - a. Problem texts - You will be provided with a link to a read only version of the problem texts in Overleaf.

- b. Translating in Overleaf - Sign up and log in to your Overleaf account. Copy the project with the problem texts into a new project. Translate the texts and download a PDF after recompiling the document with XeLaTeX (change the compiler under Menu → Settings → Compiler).
 - c. Printouts - No printouts will be available. You are therefore asked to check the PDF file on your screen before submitting.
 - d. Submitting - We will provide a link for submitting the translated file online. The PDF file should be in the format "eupho23_exp_XYZ.pdf" (for the experiment) or "eupho23_th_XYZ.pdf" (for the theory exam) where XYZ stands for the standard three-letter code of your country.
 - e. Printing – We will print the translated PDF files and hand the printouts to your students at the beginning of the exam. All students will also be provided with a printout of the English version.
- **Translating General instructions** – In the week before EuPhO 23 we will provide you with the general instruction page on which you can practice the translation process. Please forward the general instructions to your students so that they are already familiar with them. We are happy to help with any technical difficulties you might encounter.

Practical Information

- **Weather and clothing** – The weather in Hannover can be anything between chilling wind with rain and beautifully sunny. Please bring clothes accordingly and consider bringing an umbrella as well. Students are asked to pack some clothes for possible sport activities. As there is a fair chance of sunny weather better also bring your swimming clothes and beach towel with you – just in case.
- **Currency** - The currency in Germany is euro (€) and credit card payment is widely (but not universally) accepted. Foreign currencies can be exchanged in banks but also at the airport and main train station.
- **Electricity** - The power outlets in Germany are 230 V at 50 Hz with F type plugs and sockets (see <https://en.wikipedia.org/wiki/Schuko> for more details).
- **Tap water** – Tap water is generally safe to drink in Germany. We will provide a drinking bottle to all participants of EuPhO 23 and encourage you to make good use of it.
- **Free time** – In your free time you are welcome to explore Hannover on your own or with a guide. There is plenty to see and we gladly give advice on how to spend your time in this city. See also <https://www.hannover.de/en> for some ideas.
- **What else to bring?** – Feeling social? Why not bring your favourite game or an instrument to play together? There is plenty of room at the Youth Hostel to meet up with your peers and have a good time together.

Calculators and Cell Phones

- **Calculators** – The organizers will not provide calculators for the exams. Students have the responsibility to bring their own. Only a non-programmable, non-graphical calculator with cleared memory is allowed.
- **Collecting Cell Phones** - To discourage any possible information exchange between team leaders and students during the problem translation stage, the cell phones of the students will be collected by the team guides. The phones will be collected on the evening before each of the two examinations. Phones will be returned right after the exams.

Important dates for EuPhO 23

<i>December 31, 2022</i>	Deadline for pre-registration at www.ipn.uni-kiel.de/eupho2023_registration
<i>February 2023</i>	Invitation to EuPhO 23 and registration with confirmation of number of persons attending
<i>March 2023</i>	Participation fee is invoiced and formal invitation letters to obtain visas are issued, if necessary
<i>May 22, 2023</i>	Deadline for submitting team and travel details as well as for payment of fees
<i>June 16-20, 2023</i>	EuPhO 23 (duration of hospitality in Hannover)

Preliminary program for EuPhO 23

As details are still being finalised the programme may be subject to changes.

Venues: LGS - Leonore Goldschmidt School Mühlenberg, LUH - Leibniz University Hannover, MH - Mercure Hotel Hannover Mitte, YH - Youth Hostel,

Date	Students	Leaders / Observers
Friday June 16	<i>All day</i> Arrivals & Registration (meet at Hannover train station or airport) 18:00-19:30 Opening Ceremony (LUH Welfenschloss) 19:30-21:00 Welcome Dinner (LUH Welfenschloss)	
Saturday June 17	9:00-14:00 Experimental Exam (LGS) 15:00-18:00 City tour	5:00-8:00 Translation (MH) 10:00-18:00 Excursion
Sunday June 18	9:00-14:00 Theoretical Exam (LGS) 15:30-18:00 Sports activity 20:00-21:30 Evening Activity (YH)	5:00-8:00 Translation (MH) 10:00-18:00 Free time 20:00-21:30 Possible Evening Activity
Monday June 19	9:00-11:00 Preparation for Moderation 12:00-18:00 Moderation (LUH Pferdestall) & Visits to Laboratories (LUH) 19:30-22:30 Farewell Dinner & Party (Kaiserschänke Hannover)	
Tuesday June 20	10:00-12:30 Closing Ceremony (LUH Welfenschloss) 12:30-14:00 Lunch (LUH Welfenschloss) 14:00- Individual Departure (with guides)	