

## European Physics Olympiad 2023 – Fourth and final Circular (09.06.2023)

Dear students, leaders and observers of EuPhO 23,

the 7<sup>th</sup> European Physics Olympiad will start in one week. With this fourth and final circular we would like to give you some additional information on EuPhO 23 complementing the information from the previous newsletters. We also attach a more detailed version of the program. For any further news on EuPhO 23 check the website [www.eupho23.de](http://www.eupho23.de).

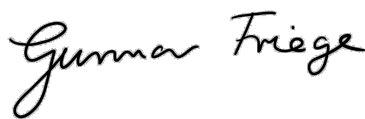
We wish everybody a smooth and safe travel to Hannover.

With best regards,



**Prof. Jaan Kalda**

Tallinn University of Technology  
President of EuPhO



**Prof. Gunnar Frieger**

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](mailto:organiser@eupho23.de) or give us a call at +49 (0)15678 126785.

### Participants

The number of participants changed slightly back and forth over the last weeks. A few countries unfortunately had to cancel their participation and some new participants registered for EuPhO 23. We now look forward to welcome 176 students and 72 leaders/observers from the following 38 countries:

Europe (28 countries): 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, Serbia, Slovakia, Slovenia, Sweden, Switzerland, Turkey

Guest Teams (10 countries): Bangladesh, Brazil, Colombia, Israel, Kyrgyzstan, Macao (China), Saudi Arabia, Singapore, Tajikistan, Vietnam.

## General

- **Arrival** – On June 16<sup>th</sup> we will welcome all delegations at their respective point of arrival in Hannover (train station or airport).

The meeting point at the airport will be at the entrance to the city train station on the ground floor (marked with an S on the map at [www.hannover-airport.de/am-flughafen/uebersichtsplaene](http://www.hannover-airport.de/am-flughafen/uebersichtsplaene)).

At the main station we will meet you right before the exit to Ernst-August-Platz (see map at [www.bahnhof.de/downloads/station-plans/2545.pdf](http://www.bahnhof.de/downloads/station-plans/2545.pdf)).

From there guides will guide you to the accommodation and/or registration office by public transport. 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.

- **Health and Travel Insurance** - We will do everything to ensure a smooth and safe running of EuPhO 23. However, all participants need to make sure that they have adequate health and travel insurance. Additionally, the organisers cannot be held liable for any risks that result from activities outside of our responsibility (e.g. free time activities). Participation in EuPhO 23 signifies acceptance of these conditions.
- **Information from Leaders/Observers** – Leaders and Observers will have dinner in the Brauhaus Ernst August on Saturday. For Sunday we scheduled an excursion to Goslar and the Rammelsberg Mines. We need some more specific information from Leaders/Observers for these two occasions and kindly ask you to fill the form at <https://forms.gle/TuWT1DCHabeVN5VBA> until beginning of next week. Remember to bring some warmer clothes for the mines as it is around 10° C there.

## EuPhO 23 Problems

- **Translating and Uploading of General Instructions** – The general instruction page and the upload form are not yet finalised. We will get in touch with you as soon as possible to allow you to test and practice the translation and upload process. We are then happy to help with any technical difficulties you might encounter.
- **Experimental Kits** – The experimental sets for EuPhO 23 can be purchased for training (or any other) purpose after the exams. The price will 300€ per experimental set to be paid in cash in Hannover. The kits will be sold at the registration office at the Leibniz University on moderation day.
- **Laptops or other Devices for Moderation** – For the moderations electronic copies of the scanned exams will be provided to the leaders to forward them to their students. Additionally, they will get a model solution to the problems and the preliminary marks of the students. All of the material will be distributed electronically and there will be no printouts. We therefore ask you to bring laptops, tablets, smartphones or other devices with you that students can use during moderation to have their own solutions at hand. These may be the students' own devices or devices provided to them by the team leaders.

## Calculators and Electronic Devices during Exams

- **Calculators** – As in former EuPhOs the organisers 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. Calculators with advanced functions such as numerical

integration or differentiation or spreadsheet functionality will also be considered programmable calculators and are therefore not allowed at EuPhO 23. An example for a non-allowed calculator is the model Casio fx-991EX. We understand that the definition is still somewhat vague. If you are unsure about the eligibility of a certain calculator model, please contact us.

- **Cell Phones and other Electronic Devices** - To discourage any possible information exchange between leaders and students during the problem translation stage, the cell phones of the students and other electronic devices like smartwatches, tablets, and laptops will be collected by the team guides on the evening before each of the two examinations. Phones will be returned right after the exams. Larger devices will be stored at the Youth Hostel. We strongly encourage students to leave all devices that are not absolutely needed at home. Students are allowed to bring simple watches without internet connectivity during the exams.

### 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, please pack some clothes for outdoor 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.
- **Dress Code for Ceremonies** – There will be no official dress code for the opening and closing ceremonies. You might want to bring something a little more festive but are free to decide that for yourselves.