



# International Young Physicists' Tournament

## IYPT



We, the organization stated below, hereby file an

### Application for Recognition as an IYPT Member Organization (IMO)

in accordance with Article 7, Section 1 of the Statutes of the IYPT.

<b>Name of Organization:</b>	Istraživa ki centar mladih (eng Youth Research Centre)
<b>Legal Type of Organization:</b> (e.g. school, university, association (NGO), ...)	NGO associated with the University of Zagreb
<b>Registration details:</b>	Personal identification number of NGO: 01168533815
<b>Full Address:</b> (including country)	Unska ulice 3, HR-10000, Zagreb, Croatia
<b>Email Address:</b>	istrazivacki.centar.mladih@gmail.com
<b>Organisation website:</b>	<a href="https://icm.hr/">https://icm.hr/</a>
<b>Tournament website:</b>	<a href="https://iypt.icm.hr/">https://iypt.icm.hr/</a>

To comply with the regulation that applications for IMO status can only be made by someone who has participated in one of 5 most recent IYPTs (either as an observer, team or guest team member, team leader, or juror). This person commits to act as a team leader of the team participating at IYPT on behalf of this IMO. This person can be changed by the IMO at any time to another person fulfilling the qualification criteria.

<b>Name:</b>	Filip Landek
<b>Email Address:</b>	flandek@gmail.com
<b>Last participated IYPT in year:</b>	2023 / 2022
<b>Last participated IYPT as:</b> (observer, team member, team leader, or juror)	Observer (guest) (2023) / Team member - captain (2022)

We declare that we will respect and comply with the Statutes and the Regulations of IYPT. In particular, we agree to implement an IYPT qualification procedure, which shall be open to all students/teams from the country we represent. This qualification procedure shall be organized as a non-profit event. We annex a brief description of the selection procedure performed in our country.

In case our application is accepted, we nominate the following person to represent us in the International Organizing Committee (IOC), until further notice. Changes in our IOC representative will be announced (in due time) to the President of IYPT in writing.

<b>Name:</b>	Filip Landek
<b>Email Address:</b>	flandek@gmail.com

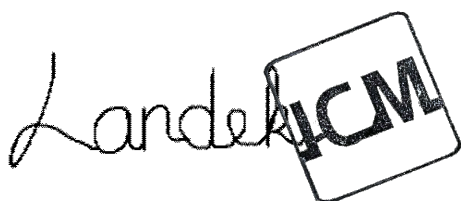
We give explicit consent to publish the contact details of our organization and our designated IOC representative on the IYPT website.

Date and Place: ..... Zagreb, 19.05.2024

Name and Position (e.g. President, Secretary General, ...) of the person authorized to sign this application on behalf of the organization:

..... Filip Landek, President of Youth Research Centre

Signature of authorized person on behalf of organization:



Signature of person who participated IYPT before and will act as the team leader:



Signature of designated IOC representative:



*Annex: Brief description of the selection procedure*



## **Description of the selection of the national team of Croatia for the IYPT**

The members of the Croatian team for the IYPT are selected via the National Young Physicists' Tournament (Croatian: *Državni turnir mladih fizičara*). The national tournament is hosted by the Youth Research Center with support from the Institute of Physics ([www.ifs.hr](http://www.ifs.hr)) and the Department of Physics, Faculty of Science, University of Zagreb ([www.pmf.unizg.hr/phy/](http://www.pmf.unizg.hr/phy/)).

All students attending high schools in Croatia may participate in the National Tournament. The National Tournament is an individual competition. The only tournament level is the nationwide level and there are no restrictions on a number of students from a certain school or area. There is no grouping of participants during their evaluation based on their geographic location, age or the type of school they are attending. This gives any participant equal conditions of evaluating their work.

For the school year 2024/2025, we received a total of 35 applications from 20 different towns in Croatia. More detailed statistics are available upon request.

The selection of the national team consists of two stages.

In the first stage, every participant shall pick a problem, solve it and write a short paper (approximately 8 - 10 pages) describing their solution. Every paper is evaluated by three independent reviewers. Scoring is done using a detailed form covering all the aspects of a problem solution, with emphasis on theoretical explanation of the phenomenon, quality of the experiment and data analysis, and finally, validity of conclusions. Reviewers' comments on the papers are given to the participants in order to give them guidelines to improve their knowledge and research skills.

The best ten papers are called to the second stage - the National Tournament. The National Tournament consists of a short written exam and Physical Fights. The exam questions general physics knowledge through challenging problem-solving-oriented tasks. Physics Fights are similar to PFs on the IYPT regarding the stages and duration, but there is no Reviewer role and schedule of reports and oppositions is done in advance. At least five independent jurors, experienced in IYPT as former participants or team leaders, evaluate the fights. Jury scoring is done the same way as on the IYPT.

Final scores of the National Tournament consist of following elements:

- submitted paper with the solution of the problem (30%)
- written exam on the National Tournament (20%)
- performance as the Reporter (30%)
- performance as the Opponent (20%).

The best five participants on the National Tournament are selected for the Croatian team for the IYPT.

After the team is selected, the Youth Research Center as a IYPT Member Organization leads the preparation of the team, in collaboration with the University of Zagreb and team members' local school mentors.