



To the  
President of the International Young Physicists' Tournament



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 International Young Physicists' Tournament (IYPT).

<b>Name of Organization:</b>	Deutsche Physikalische Gesellschaft e. V. (German Physical Society)
<b>Legal Type of Organization:</b> (e.g. school, university, association (NGO), ...)	Non-profit association
<b>Registration details:</b> (if applicable)	
<b>Full Address:</b> (including country)	Deutsche Physikalische Gesellschaft e. V. Hauptstr. 5 53604 Bad Honnef Germany
<b>Email Address:</b>	dpg@dpg-physik.de
<b>Website:</b> (if applicable)	www.dpg-physik.de

To comply with the regulation that applications for IMO status can only be made by someone who has participated in the IYPT before (either as an observer, team member, team leader, or juror), this application is supported by the following person who meets this criterion:

<b>Name:</b>	Florian Ostermaier
<b>Email Address:</b>	florian.ostermaier@gypt.org
<b>Last participated IYPT in year:</b>	2016
<b>Last participated IYPT as:</b> (observer, team member, team leader, or juror)	Independent Juror

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>	Florian Ostermaier
<b>Email Address:</b>	Florian.ostermaier@gypt.org

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

Date and Place: 06.03.2017 Ulm/Bad Honnef

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

Dr. Bernhard Nunner, Chief Executive Deutsche Physikalisch Gesellschaft e. V.

Signature of authorized person on behalf of organization:

DEUTSCHE  
PHYSIKALISCHE GESELLSCHAFT E.V.  
HAUPTSTRASSE 1 D-53604 BAD HONNEF  
TEL.: 02224 / 92 32 - 0  
FAX: 02224 / 92 32 - 50

Dr. Bernhard Nunner  
Hauptgeschäftsführer

Signature of person who participated IYPT before:

F. Ostermaier

Signature of designated IOC representative:

F. Ostermaier

Annex: Brief description of the selection procedure



The following document is to provide a detailed description of the selection procedure of the German national team attending the Physics World Cup, IYPT. It is organized in chronological order schematically modeling the course of participation from the research at the GYPT centers up to the selection for the national team.

## 1 Work at GYPT Centers

Directly after the IOC meeting following the IYPT, the new problems are published on the GYPT website which then means the start of the new competition round. The annually term follows the structure of the German school year starting in August and ending with the IYPT in July.

Starting in August, students intending to participate in the GYPT tournament in March, each select one of the 17 IYPT problems. The studies on these problems can then be carried out in one of the 15 *GYPT Centers*, which are distributed evenly across the country. Each GYPT Center is granted financial support for materials needed in order to investigate the IYPT problems. Furthermore, all GYPT centers can hire a student assistant who, in most of the cases, is a former IYPT/GYPT participant studying at a university close to the respective GYPT center. In this way, specific IYPT knowledge is transferred to the GYPT participants at a very early stage.

Additionally, also individual teams of students not working at a local GYPT center can register for the GYPT qualification round. As they cannot be directly supported by the student assistants, they can directly contact the *GYPT mentors*, who are published on the website and one of which is specifically responsible for questions regarding the physical origin of an IYPT problem. These mentors consist of experts from associated universities, motivated teachers and former IYPT participants.

**In 16/17, approximately 200 students have been working on IYPT problems at the GYPT centers.**

## 2 Qualification for GYPT

Students working at GYPT centers as well as those preparing independently from the GYPT infrastructure, both apply for the GYPT tournament via an online registration form by December. Doing so, students must organize themselves in either teams of 2 or 3 participants prior to the application. Teams from GYPT centers then compete in *regional qualifiers* to be one of the two teams representing their center at the GYPT. All places not taken by the GYPT centers are open for online application by the independent teams, who have to submit a written report to one of their three problems.

**By the end of January 2017, 85 students in 30 teams have been qualified for the federal GYPT competition in March.**

## 3 GYPT Tournament

Each of the 85 students qualified for the GYPT, is preparing a 12 minute report on one of the 17 IYPT problems. During the GYPT weekend, all of these 85 reports are presented in parallel sessions in 7 rooms. Each report is followed by a 12 minute discussion by the opposing team whereby each participant is to lead the discussion once throughout the weekend. In this way, each student is evaluated by one grade for the report and one grade for the discussion by the end of the day. The best three overall teams advance to the finals on the following morning fighting for the GYPT championship. According to the result, the winning team(s) assigned gold medal, silver medal (ranks 2 and 3) and bronze medal (ranks 4-6).

**Independently from the team ranking, the jury nominates 10 individual participants who advance to the next round of the selection process for the national IYPT team, the *GYPT workshop*.**

These ten students, however, do not necessarily have to be the top ten participants according to the final GYPT ranking.



### 4 GYPT Workshop

The final selection of 5 participants out of the resulting 10 is then done at the GYPT workshop. It takes place 4 weeks after the GYPT at the University of Ulm. All workshop participants are asked to prepare a short introduction (literature research, preliminary experiment) to an additional IYPT problem which they haven't been presenting in the GYPT tournament. After the plenary presentation of the second problems on Friday, the workshop features a theoretical exam on Saturday morning followed by experimental work in the evening. The national team is then selected out of the participants' performances in these three tasks in combination with the score reached at the GYPT weekend.