

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.

Name of Organization:	Austrian AYPT- Össerreickische Chysikmeisterchaf
Legal Type of Organization: (e.g. school, university, association (NGO),)	association
Registration details:	
Full Address: (including country)	Porrollanguesse 4, 1090 Wien Austria
Email Address:	info@aypf.at
Organisation website:	aypt.at
Tournament website:	aypt.at

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.

Name:	Simon GFREINER
Email Address:	greinersimon a smail com
Last participated IYPT in year:	2017
Last participated IYPT as: (observer, team member, team leader, or juror)	Team manager

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.

Name:	Simon Gtreiner	
Email Address:	gleinersimon a 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: 13. 07. 12 Viens

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

Michael SCHERBELA, Secretary General AYPT

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:

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Chaine Simon

Skeinh Simon

Annex: Brief description of the selection procedure

The Regulations of the Austrian Young Physicists' Tournament

I. Austrian Young Physicists' Tournament

The Austrian Young Physicists' Tournament (AYPT) is a competition among teams of secondary school students in their ability to solve complicated scientific problems, to present solutions to these problems in a convincing form and to defend them in scientific discussions, called Physics Fights (PF). It is carried out by the association "AYPT – Forschungsforum junger Physiker" according to the articles of association, appendix A. The Organizing Committee for the AYPT is selected by the Executive Committee of the association.

II. The problems of the AYPT

The problems of the AYPT will be the same as for the IYPT (International Young Physicists' Tournament), in accordance with Article II of the Regulations of the International Young Physicists' Tournament

III. The participants of the AYPT

1. The Austrian teams

Any team composed of students enrolled in Austrian secondary schools is eligible for participation.

2. Foreign teams

The Organizing Committee may invite any number of foreign teams. Those teams

compete in the same way as the others but they are not taken into account when compiling the Austrian National Team (see Section XIV).

3. The membership of the teams

The AYPT team is composed of three secondary school students. The secondary school graduates could participate in the AYPT in the year of their graduation. The participation of university students is not allowed. The composition of the team cannot be changed during the Tournament. The team is headed by a captain who is the official representative of the team during the PF.

4. Team Leader

The team is accompanied by a team leader.

IV. The Jury

The Jury is nominated and organized by the Organizing Committee. The Jury consists of at least five members. Team leaders may be included in the Jury. The team leaders cannot be members of the Jury in the PF where their teams participate and should not, if possible, grade the same team more than twice.

V. The agenda of the AYPT

The AYPT is carried out in a period determined by the Organizing Committee. All teams participate in the Selective PFs. Selective PFs are carried out according to a special schedule determined by the Organizing Committee according to the number of participating teams, following the rule that, if possible, no team meets another team more than twice. This schedule should be known before numbers are ascribed to the teams by lot. The best teams participate in the Final PF.

VI. The Physics Fight regulations

Three or four teams participate in a PF, depending on the total number of teams. In the course of a PF the members of a team communicate only with each other.

Before the beginning of a PF, the Jury and the teams are introduced.

The PF is carried out in three (or four) Stages. In each Stage, a team plays one of the three (four) roles: Reporter, Opponent, Reviewer (Observer). In the subsequent Stages of the PF, the teams change their roles according to the schemes:

Three teams PF
Stage 1 2 3
Team
1 Rep Rev Opp
2 Opp Rep Rev

Four te	ams PF			
Stage	1	2	3	4
Team				
1	Rep	Obs	Rev	Opp
2	Opp	Rep	Obs	Rev
3	Rev	Opp	Rep	Obs
4	Obs	Rev	Opp	Rep

VII. The Stage regulations

The performance order in the Stage of a PF:	Reserved time in minutes
The Opponent challenges the Reporter for the problem	n
Preparation of the Reporter	
Presentation of the report	
Questions of the Opponent to the Reporter	
and answers of the Reporter	
Preparation of the Opponent	
The Opponent takes the floor, maximum 4 min.	
and discussion between the Reporter and the Opponer	nt
The Opponent summarizes the discussion	
Questions of the Reviewer to the Reporter	
and the Opponent and answers to the questions	
Preparation of the Reviewer	
The Reviewer takes the floor	
Concluding remarks of the Reporter	
Questions of the Jury	

In the Final PF the procedure of challenge is omitted.

The official language of the AYPT is English.

VIII. The teams performance in the Stages

The Reporter presents the essence of the solution to the problem, attracting the attention of the audience to the main physical ideas and conclusions.

The Opponent puts questions to the Reporter and criticizes the report, pointing to possible inaccuracy and errors in the understanding of the problem and in the solution. The Opponent analyses the advantages and drawbacks of both the solution and the presentation of the Reporter. The discussion of the Opponent should not become a presentation of his/her own solution. In the discussion, the solution presented by the Reporter is discussed.

The Reviewer presents a short estimation of the presentations of Reporter and Opponent.

The Observer does not participate actively in the PF.

During one PF only one member of a team takes the floor as Reporter, Opponent or Reviewer; other members of the team are allowed to make brief remarks or to help with the presentation technically. During the Final PF any team member can take the floor only once.

IX. The rules of problem-challenge and rejection

1. Preparation

Prior to the Tournament, each single participant prepares a report on one of the problems and publicly announces their choice during the opening ceremony. Thereby, the problem is assigned to the individual participant for the course of the Tournament. In the following, the chosen problem will be referred to as the participant's assigned problem. Within a team, no two team members may have the same assigned problem.

2. Selective PF

The Opponent may challenge the Reporter on any of the problems assigned to a member of the Reporter team that the Reporter team has not presented before. The team member whose assigned problem is challenged has to accept the challenge andact as Reporter in this stage.

If possible, the Opponent must challenge a problem which has not already been presented in the same PF.

3. Final PF

In the Final PF, teams choose which of their three assigned problems they wish to present again. All problems presented in the Final PF have to be different. In case teams choose the same problem, priority of selecting problems for the Final is determined by the TSP (see section XI), in case of equality by lot.

All teams hand in a prioritization of their assigned problems before they leave the fight room at the end of the last Selective PF. After the results of the Selective PFs are known, the choice of the teams participating in the Final is published immediately.

X. The grading

After each stage the Jury grades the teams, taking into account all presentations of the members of the team, questions and answers to the questions, and participation in the discussion. Each Jury member shows integer marks from 1 to 10. The mean of the highest and the lowest marks is counted as one mark which is then added to the remaining marks. This sum is used to calculate the mean mark for the team. The mean marks are multiplied by various coefficients: 3.0 for the Reporter, 2.0 for the Opponent, 1.0 for the Reviewer and then transformed into points.

In the Final, grading is done in secret. Jurors write down their grades on the grading sheets, sign them, and give them to the Final's Fight Assistants. The Chair asks the jurors of the highest and lowest grades to justify and explain their grades. This is done without mentioning the actual grade. The results are kept secret until they are officially announced during the award ceremony. After the announcement, all grading sheets and the detailed results are published online so that anyone can check the result.

XI. The resulting parameters

1. For a team in the PF

The sum of points (SP) is the sum of mean marks, multiplied by the corresponding coefficients and rounded to one decimal.

2. For a team in the Tournament

The total sum of points (TSP) equals the sum of SP of the team in all Selective PFs.

XII. The Final

The three teams having the highest TSP in the Selective PFs participate in the Final. In case teams have equal TSP, their participation in the Final is decided by which team won more Selective PFs, in case of equality by lot.

The order of presentation in the Final is determined by position by entering the final: the higher the *position*, the higher the number in the scheme of section VI.

XIII. The final team ranking of the AYPT

The winner of the Final obtains the 1st place. If two or three teams have the same SP result in the final, the winner is nominated according to the highest TSP. The other two teams participating in the Final share the 2nd place. For teams not participating in the Final, the Organizing Committee decides, according to the TSP obtained, which teams will share the 3rd place.

XIV. Compiling the Austrian National Team

After the end of the AYPT the decision about the composition of the Austrian national team is made according to the procedure outlined in appendix A of the articles of association.

XV. The status of the regulations of the AYPT

The regulations are established by the Executive Committee of the association and may be changed only by the Executive Committee.

Accepted by email, 2016-08-24

Juror's name & signature: problem no.: opponent: room: stage: SCORESHEET fight (round no.): reporter: Start from 1 and add/subtract П ı + REPORTER +

reviewer:

deeply incorrect or show inconclusive or too long REVIEWER'S QUESTIONS concise and correct or deep misconceptions no questions asked ANSWERS TO JURY, some incorrect, **OPPONENT**, and 0 some aspects fine conduct at the discussion overall efficient some aspects reporter's efficient poog poor DISCUSSION WITH OPPONENT convincingly supported 3 — proved deep arguments/responses + data/theory understanding too few some many + complex concepts well science communication unclear, chaotic demonstrative communicated overall clear, some parts partly clear well done greater extent than expected task fulfilment misunderstood some aspects above average interesting solution average partly others' data, incorrectly cited + some interesting results considerable experimental considerable experimental review of sources, cited own contribution some own input and theoretical or theoretical well fitting, deviations theory and experiment comparison between qualitatively analysed explained, conclusive analysed, conclusive no/ almost no + theory limits not well fitting deviations completely testable convincing analysis + results explained sufficient number errors analysed + reproducible, well performed, relevant experiments too few some fair deep and comprehensible, detailed, complex, theory/model quite detailed, almost no correct some boog fair shows physical insight demonstrative phenomenon explanation almost no detailed some good fair NOTES: REPORT

0too few, mostly irrelevant report evaluation pros & cons		REVIEW OF OPPOSITION	NOIL		DISCUSSION ANALYSIS	LYSIS	MISSED POINTS	MISSED POINTS ANSWERS TO JURY
& understanding	prioritisation	speech evaluation	pros & cons p	prioritisation	discussion evaluation	correct own opinions		QUESTIONS concise and correct or
The valid to Carrily Ultical Politics 0	no	0 poor/wrong	irrelevant	OU	almost no	too few	-ı irrelevant 	no questions asked
1 + Suitabily allotted to Kep & Opp, 1 — partial partially relevant	ant some	1 too short/long partially relevant	oartially relevant	some	too short/long	some	0 none	some incorrect,
clear well prioritized 2 good	mostly adequate reasonable	2 informative, apt r	informative, apt mostly adequate reasonable	reasonable	relevant parts	many		inconclusive or too long
time managed efficiently complex adequate	poog	3 condensed & accurate	fully adequate	good	accurate,	fully adequate	constructive	deeply incorrect or show 2 — deep misconceptions

+1

Start from 1 and add/subtract

REVIEWER

IYPT - March 2019

NOTES:

Please, suitably adjust your grades taking into regard the [1,10] range.