

NEBEN

AMPT

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Dear participants of the 25th AYPT

It is a pleasure for me to once again be part in the organization of the 25th anniversary of the AYPT and I want to welcome all of you who made it here this year. Every year many teams from Austria and from abroad gather in Leoben to compete. However, preparation has already started several months ago, and I am sure it was a long road for every one of you to come here. But now the time has come to show your work and we are all excited to see you present your ideas. So, go ahead, enjoy the competition and never stop working on your dreams!



Dr. Gerhard Haas

Head of the Local Organizing Committee

As a company in the technology and industrial sector, we urgently need well-trained employees in the fields of mathematics, IT, natural sciences and technology.

We have to start getting our youngsters interested in such subjects early on, introducing them and, ideally, inspiring them. The AYPT is a good opportunity to bring the fascination of natural sciences closer to young people.



Dr. Friedrich Santner

CEO Anton Paar GmbH

Recognising and promoting talent at an early stage is an important task in our society. As a high-tech company, we engage in a wide range of commitments in the fields of mathematics, IT, natural sciences and technology because the talented young people of today are our potential for the future. The International Young Physicists' Tournament offers a suitable framework for young people and is a good example of this. This investment in young people benefits us as well as Austria as a technology and research location.



Dr. Sabine Herlitschka

Chairman of the Board at Infineon Technologies Austria AG

Teams participating in the 25th AYPT 2023

Austrian Teams

- AHS Theodor Kramer
- BRG APP Innsbruck 1
- BRG APP Innsbruck 2
- SchülerInnen Forschungszentrum
- ERG Donaustadt
- BG/BRG Leibnitz

Foreign Teams

- Georgia
- GYPT
- Hungary
- Slovak YPT
- Slovenia
- Sweden

Official Schedule for the AYPT 2023

Note: This schedule may be subject to change. A representative from each team should check for the latest information each morning at the information desk.

Thursday, April 13th 2023

Arrival:

Participants are accommodated at Hotel¹

05.30 pm:

Meeting at the reception desk

06.00 pm:

Opening ceremony:

- Drawing of lots at Montanuniversität

¹ Hotel Kongress Leoben, Hauptplatz 1, 8700 Leoben; Phone: +43 3842 468 00

afterwards:

Dinner at Hotel

After Dinner (08.00 pm approx.):

Meeting of Teamleaders with Organizing Committee, at Hotel

Friday, April 14th 2023

08.30 am:

Jury Briefing

09.00 am:

First Selective Fight

01.00 pm:

Lunch at Hotel Kongress

02.30 pm:

Second Selective Fight

06.30 pm:

meet at the reception to walk to the BG/BRG Neu (in case you don't know the way)

07.00 pm (approx.):

Barbecue party in the court of BG/BRG Neu

Saturday, April 15th 2023

09.00 am:

Third Selective Fight

01.00 pm (approx.):

Lunch at Hotel

02.00 pm:

Finals

afterwards:

Winner's ceremony, closing ceremony

afterwards:

Departure

If not stated otherwise, all activities take place at the Montanuniversität Leoben.

Photo & Video Policy throughout the AYPT

This policy should clarify under which circumstances photography and video recordings are authorized during the course of the Austrian Young Physicists tournament (short AYPT). This policy is also to be followed by jurors and chairs as well as team leaders.

The general public (including participants, visitors, supervisors and members of the jury, etc.) is not permitted to take photos and videos during the stages of the tournament. Only officials and members of the organization committee have the permission for filming and photography during a stage.

Personal photos and videos may be taken at the tournament (excluding the stages) as long as (i) they are only used for personal non-commercial purpose; (ii) they are not in conflict with European and Austrian law (see §78 Urheberrechtsgesetz/Austrian copyright law).

Notwithstanding the foregoing, the AYPT organization committee reserves the right to prohibit any filming or photography during the tournament for any reason.

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
1	Rep	Rev	Opp
2	Opp	Rep	Rev
3	Rev	Opp	Rep

Four teams PF

Stage	1	2	3	4
1	Rep	Obs	Rev	Opp
2	Opp	Rep	Obs	Rev
3	Rev	Opp	Rep	Obs
4	Obs	Rev	Opp	Rep

•

VII. The Stage regulations

<i>The performance order in the Stage of a PF:</i>	<i>Reserved time in minutes</i>
The Opponent challenges the Reporter for the problem	1
Preparation of the Reporter	5
Presentation of the report	12
Questions of the Opponent to the Reporter and answers of the Reporter	2
Preparation of the Opponent	3
The Opponent takes the floor, maximum 4 min. and discussion between the Reporter and the Opponent	14
The Opponent summarizes the discussion	1
Questions of the Reviewer to the Reporter and the Opponent and answers to the questions	3
Preparation of the Reviewer	2
The Reviewer takes the floor	4
Concluding remarks of the Reporter	2
Questions of the Jury	5

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 and act 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

REPORTER

Start from 1 and add/subtract

1 + + - =

REPORT	phenomenon explanation	theory/model	relevant experiments	comparison between theory and experiment	own contribution	task fulfilment	science communication	DISCUSSION WITH OPPONENT	ANSWERS TO JURY, OPPONENT, and REVIEWER'S QUESTIONS
0	almost no	almost no	almost no	almost no	almost no	misunderstood	unclear, chaotic	relevant arguments/responses	0
1	some	some	some	some	review of sources, cited	partly	partly clear	too few	0
2	fair	fair	fair	qualitative agreement	some own input	average	average	some	-1
3	good	good	good	quantitative agreement	+ some interesting results	above average	some aspects well done	many	-2
4	detailed demonstrative	quite detailed, correct	multitude of parameters examined	+ limits discussed	OR	interesting solution	overall clear, demonstrative	+ data/theory supported	-1
5	deep and comprehensible, shows physical insight	detailed, complex, completely testable	OR	well fitting, deviations analysed, conclusive	considerable experimental	greater extent than expected	+ complex concepts well communicated	proved deep understanding	-2
6					considerable and theoretical				
7									

NOTES:

OPPONENT

Start from 1 and add/subtract

1 + + + - =

QUESTIONS ASKED	OPPOSITION (SPEECH) understanding of presentation	own opinions presented	topics raised and their prioritisation	time management	DISCUSSION WITH REPORTER	own opinions presented	opponent's conduct in the discussion	ANSWERS TO JURY and REVIEWER'S QUESTIONS
0	too few, mostly irrelevant	too few	almost none	poor	almost none	too few	poor/aggressive	0
1	relevant, aimed at resolving unclear points in the report	some	too few/many	reasonable	too few/many	some	some aspects fine	-1
2	+ short, apt and clear, well prioritised, all time used	some correct	partially relevant	fair	partially relevant	some correct	good	-2
3		many correct	mostly relevant	efficient	mostly relevant	many correct	some aspects efficient	
4		+ improvement suggestions	+ well prioritised	+ all time used	+ well prioritised	+ improvement suggestions	overall efficient	

NOTES:

REVIEWER

Start from 1 and add/subtract

1 + + + ± - =

QUESTIONS ASKED	REVIEW OF REPORT	REVIEW OF OPPOSITION	DISCUSSION ANALYSIS	MISSED POINTS POINTED OUT	ANSWERS TO JURY QUESTIONS
0	too few, mostly irrelevant	poor/wrong	poor/wrong	irrelevant	0
1	relevant, meant to clarify unclear points	superficial	superficial	partially relevant/correct	-1
2	+ suitably allotted to Rep & Opp, most time used	good	good	mostly correct/prioritised	0
3	+ short, apt and clear, well prioritised, time managed efficiently	apt, accurate	apt & accurate	fully adequate, well prioritised	-1
4					-2

NOTES:

Problems for the AYPT 2023

Note: According to the regulations of the AYPT the problems for the AYPT are the same as for the IYPT. These problems, which have been formulated by the IOC, are used in the AYPT in accordance with article 2 of the IYPT regulations.

1. Fractal Fingers

The effect of fractal fingering can be observed if a droplet of an ink-alcohol mixture is deposited onto diluted acrylic paint. How are the geometry and dynamics of the fingers influenced by relevant parameters?

2. Oscillating Sphere

A light sphere with a conducting surface is suspended from a thin wire. When the sphere is rotated about its vertical axis (thereby twisting the wire) and then released, it starts to oscillate. Investigate how the presence of a magnetic field affects the motion.

3. Siren

If you direct an air flow onto a rotating disk with holes, a sound may be heard. Explain this phenomenon and investigate how the sound characteristics depend on the relevant parameters.

4. Coloured Line

When a compact disc or DVD is illuminated with light coming from a filament lamp in such a way that only rays with large angles of incidence are selected, a clear green line can be observed. The colour varies upon slightly changing the angle of the disc. Explain and investigate this phenomenon.

5. Whistling Mesh

When a stream of water hits a rigid metal mesh within a range of angles, a whistling tone may be heard. Investigate how the properties of the mesh, stream and angle affect the characteristics of the sound produced.

6. Magnetic-Mechanical Oscillator

Secure the lower ends of two identical leaf springs to a non-magnetic base and attach magnets to the upper ends such that they repel and are free to move. Investigate how the movement of the springs depends on relevant parameters.

7. Faraday Waves

A droplet of less viscous liquid floating in a bath of a more viscous liquid develops surprising wave-like patterns when the entire system is set into vertical oscillation. Investigate this phenomenon and the parameters relevant to the production of stable patterns.

8. Euler's Pendulum

Take a thick plate of non-magnetic material and fix a neodymium magnet on top of it. Suspend a magnetic rod (which can be assembled from cylindrical neodymium magnets) underneath it. Deflect the rod so that it touches the plate only with highest edge and release it. Study the motion of such a pendulum under various conditions.

9. Oscillating Screw

When placed on its side on a ramp and released, a screw may experience growing oscillations as it travels down the ramp. Investigate how the motion of the screw, as well as the growth of these oscillations depend on the relevant parameters.

10. Upstream Flow

Sprinkle light particles on a water surface. Then allow a water stream to be incident on the surface from a small height. Under certain conditions, the particles may begin to move up the stream. Investigate and explain this phenomenon.

11. Ball on Ferrite Rod

A ferrite rod is placed at the bottom end of a vertical tube. Apply an ac voltage, of a frequency of the same order as the natural frequency of the rod, to a fine wire coil wrapped around its lower end. When a ball is placed on top of the rod, it will start to bounce. Explain and investigate this phenomenon.

12. Rice Kettlebells

Take a vessel and pour some granular material into it, for example, rice. If you dip e.g. a spoon into it, then at a certain depth of immersion, you can lift the vessel and contents by holding the spoon. Explain this phenomenon and explore the relevant parameters of the system.

13. Pony's Heat Tube

A glass tube with a sealed top is filled with water and mounted vertically. The bottom end of the tube is immersed in a beaker of water and a short segment of the tube is heated. Investigate and explain the periodic motion of the water and any vapour bubbles observed.

14. Jet Refraction

A vertical jet can be refracted when passing through an inclined sieve with a fine mesh. Propose a law for such refraction and investigate relevant parameters.

15. Pancake Rotation

Place a few balls in a round container. If you move the container around a vertical axis, the balls can move co-directionally with the movement of the container, or they can move in the opposite direction. Explain this phenomenon and investigate how the direction of movement depends on relevant parameters.

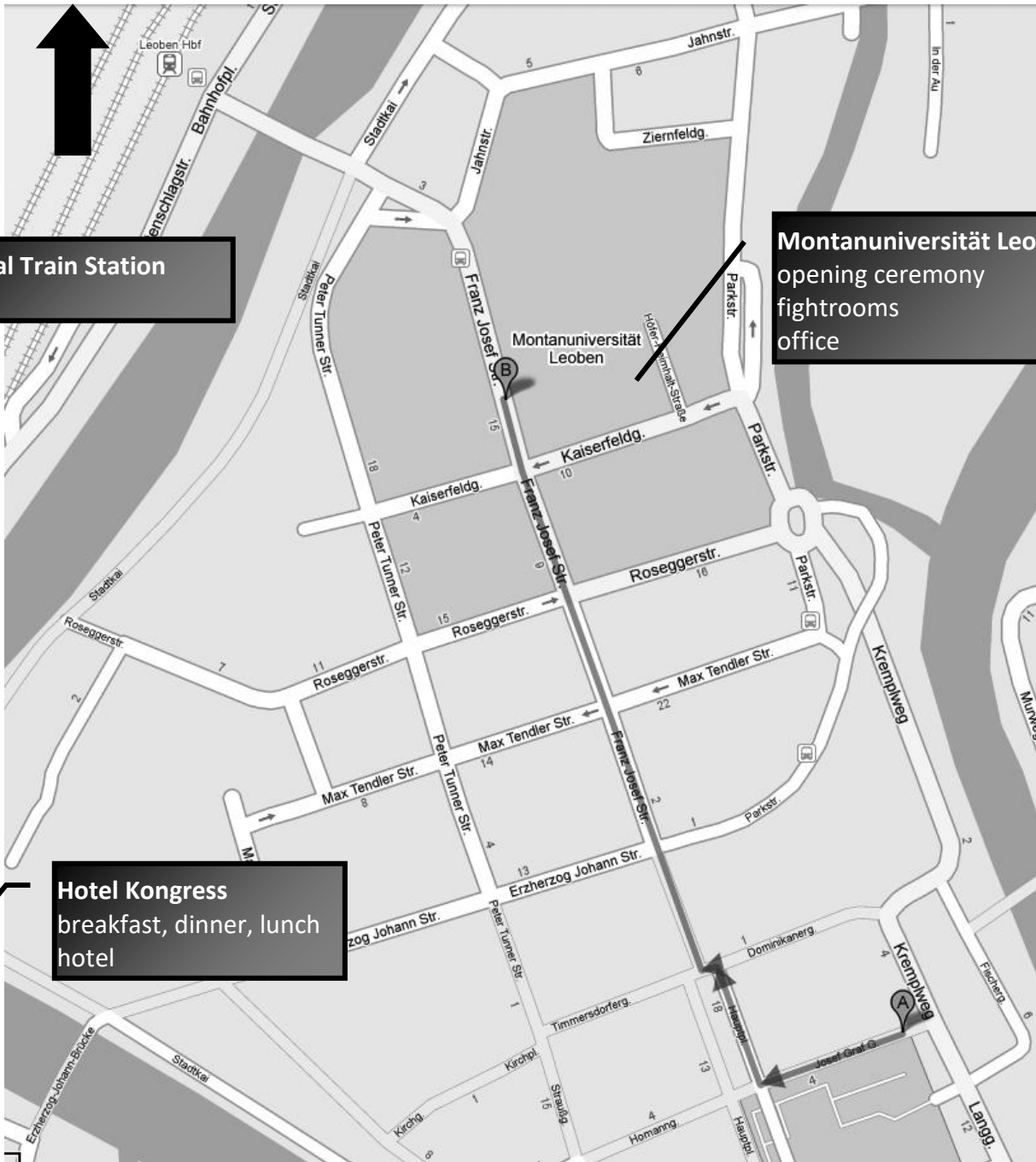
16. Thermoacoustic Engine

A piston placed in the open end of a horizontal test tube which has its other end partially filled with steel wool may oscillate when the closed end is heated up. Investigate the phenomenon and determine the efficiency of this engine.

17. Arrestor Bed

A sand-filled lane results in the dissipation of the kinetic energy of a moving vehicle. What length is necessary for such an arrestor bed to entirely stop a passively moving object (e.g. a ball)? What parameters does the length depend on?

Leoben City Map



Central Train Station

Montanuniversität Leoben
opening ceremony
fightrooms
office

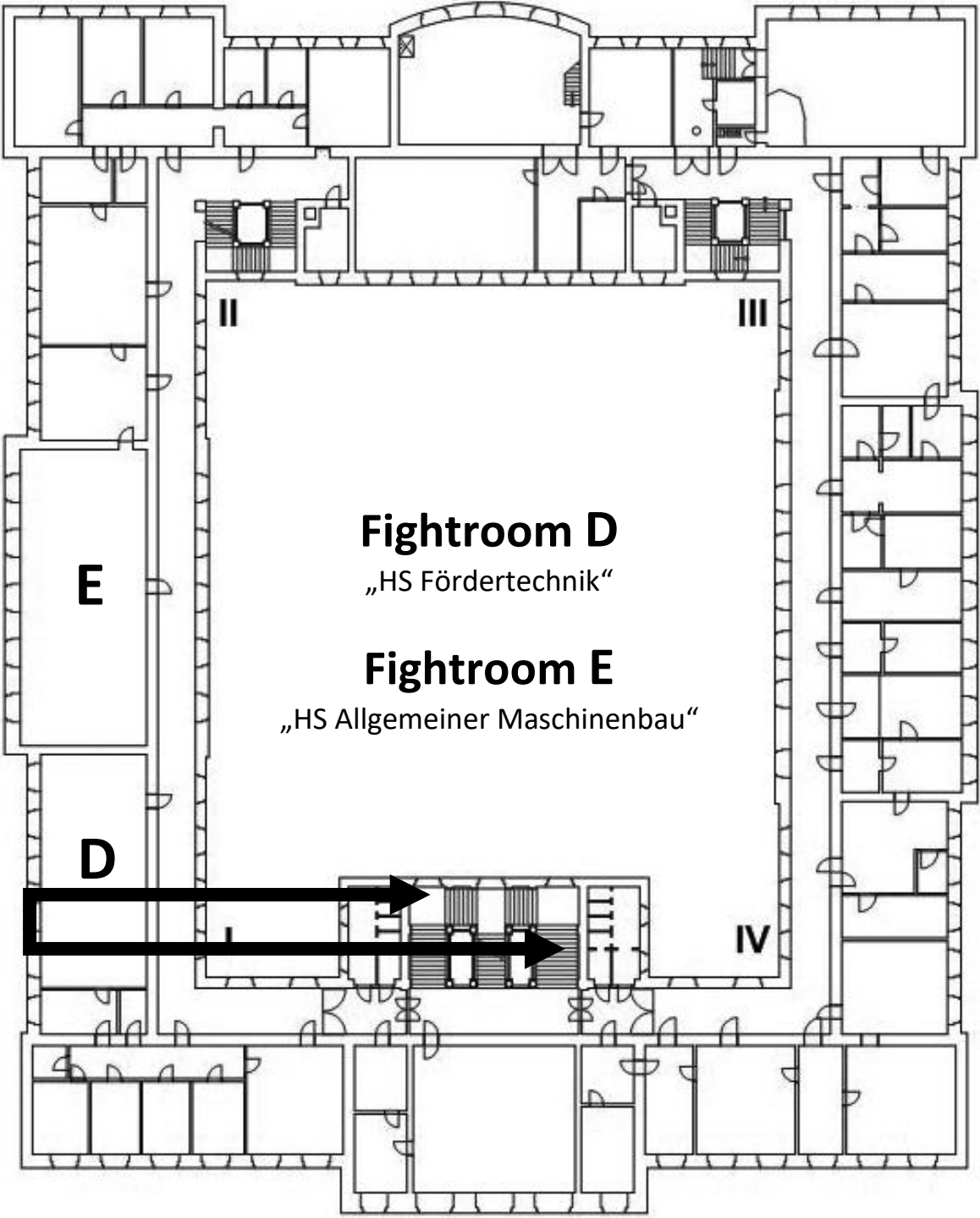
Hotel Kongress
breakfast, dinner, lunch
hotel

<http://maps.google.at>

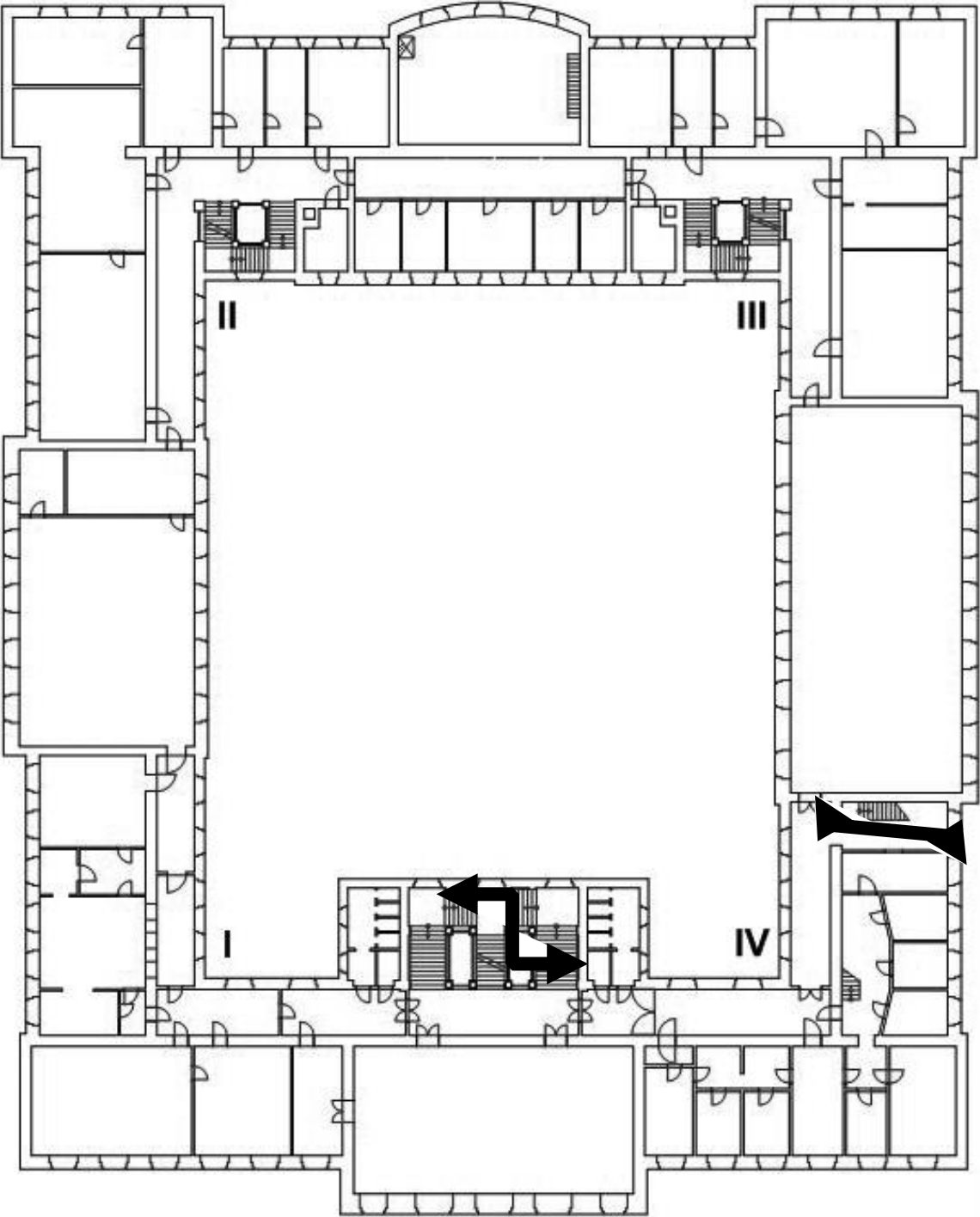
Fight Locations

This section will provide you with details of the locations of the fight rooms within the university building(s). Please keep in mind that in Austria floors are labelled starting from zero. So the ground floor (German: "Erdgeschoß", "EG") is the "0th" floor. The 1st floor is the one above the ground floor.

First Floor



Second Floor



**B
O
A**

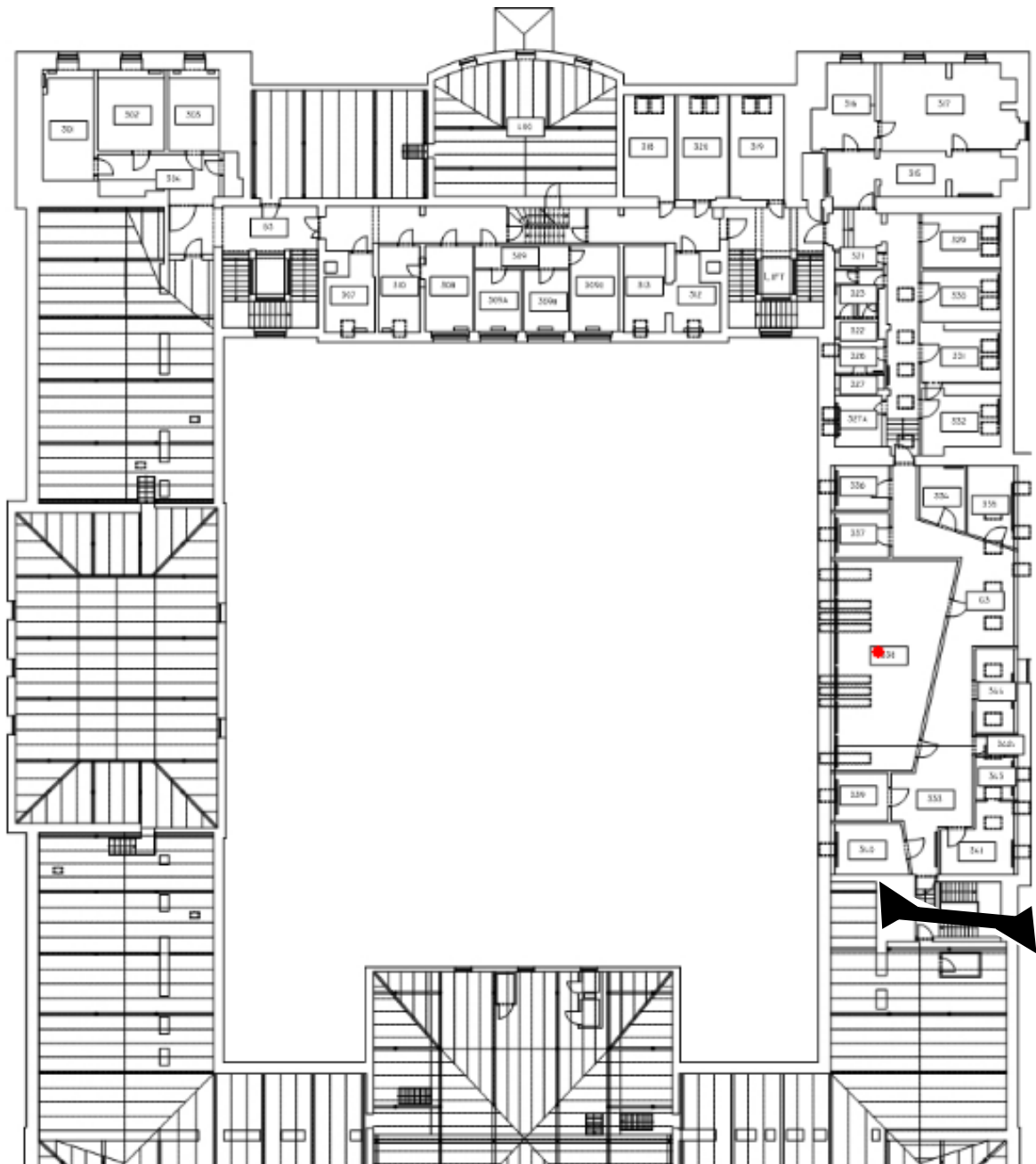
SECOND FLOOR

Fightroom A
„Aula“

Fightroom B
„HS E“

Office (O)

Third Floor



THIRD FLOOR

Fightroom C

„HS Kunststoffkunde“

C

Basic Information about Austria

This section summarizes the most important general information about Austria. It is intended to help our guests from abroad. For any further information please contact one of the organizers (wearing yellow badges).

Currency

The official currency in Austria is **Euro**, abbreviated **EUR** or **€**.

1 Euro = 100 Cent (abbr. "ct")

There are 8 different coins:

1 ct, 2 ct, 5 ct, 10 ct, 20 ct, 50 ct, 1 €, 2 €

There are 7 different bank notes:

5 €, 10 €, 20 €, 50 €, 100 €, 200 €, 500 €

Electricity

Electric power plugs are operated at 230 Volt AC with a frequency of 50 Hertz. Power outlets are compatible with type F and type C plugs.

Tap Water

The tap water in Austria is of good quality and safe to drink.

Emergency Phone Numbers

There are several emergency phone numbers available. All these numbers can be dialed from any phone free of charge and without any prefix.

122 Fire Brigade

133 Police

144 Ambulance

112 Universal European Emergency Number

Remember to call these numbers only in case of a serious emergency.

Organizers' Phone Numbers

In case you got lost or otherwise need assistance you can contact the organizers through one of the following phone numbers:

+43 676 7019116

Gerhard Haas

+43 664 4260809

Julian Ronacher

(Note: Use the numbers above when dialing from a mobile phone. On hardwired phones within Austria dial "0" instead of "+43".)

Addresses and Locations

The hotel and the university are within 5-10 minutes walking distance. A map of the city center is provided within this booklet. In case you get lost you can use the following addresses to ask for your way.

Hotel

The address of your hotel is:
Hotel Kongress Leoben (Phone: +43 3842 46800)
Hauptplatz 1, 8700 Leoben

University

The competition takes place at the University of Leoben.
Montanuniversität Leoben
Franz-Josef-Straße 18, 8700 Leoben

Europagymnasium Leoben

The barbecue party takes place in the court of „Europagymnasium Leoben “ High School.
BG/BRG Leoben Neu
Moserhofstraße 7a
8700 Leoben

Information on Law for the Protection of the Youth

Each federal state in Austria has its own law for the protection of the youth. The city of Leoben is located in the state of Styria. The following section will sum up briefly the most important aspects of the relevant law for the protection of the youth of the state of Styria. The organizing committee takes no responsibility for participants violating this law.

In Austria you must be older than 18 years to be considered a legal adult. People who are younger are restricted by the law as stated below.

Alcohol

In Styria it is illegal to buy and/or consume alcoholic beverages if you are below the age of 16. For buying/consuming beverages with more than 14 percent (of volume) of alcohol you must be over the age of 18.

Tobacco

For buying/consuming cigarettes or other tobacco products you must be over the age of 16.

Night Time

Children and adolescents below the age of 14 are not allowed to be out on the streets without supervision by an authorised adult between 09.00pm and 05.00am.

Between the age of 14 and the age of 16 the respective time is 11.00pm to 05.00am. Between the age of 16 and the age of 18 it is from 02.00am to 05.00am.

The Association AYPT – Forschungsforum junger Physiker

The history of the AYPT dates back to the year 1999 when the first tournament took place. In 2002 the legal association AYPT – Forschungsforum junger Physiker has been founded (originally named “AYPT – Österreichisches Turnier junger Physiker”) to organize further AYPTs, to represent Austria in the IYPT and to promote the goals behind the AYPT and IYPT. Detailed information about the association AYPT – Forschungsforum junger Physiker can be obtained on the official website <http://www.aypt.at/> which is available in German and English language.

Membership

If you would like to support the association in realizing further AYPTs and promoting the cause of AYPT and IYPT then please consider becoming a member of the association. An application form is provided within this booklet. Just cut it out, fill it out and hand it to one of the organizers. Further forms can be obtained from the organizers or from the website www.aypt.at. For legal reasons the application form is provided in German language only. Non-German speakers can contact the organizers for help in filling out the form if necessary.

There are two different types of membership:

- ordinary membership
- extraordinary membership

Ordinary members have to pay an annual membership fee of (at least) 10 Euro. Donations in terms of (voluntary) higher fees are always welcome.

Extraordinary members only support the goals of the association ideational and do not have to pay a minimum fee but donations are welcome from them as well.

Extraordinary members are, in contrast to ordinary members, not entitled to vote in the general assembly. Details can be found in the Articles of Association, available on the website www.aypt.at.

Antrag auf Mitgliedschaft

Ich stelle Antrag dem Verein „AYPT – Forschungsforum junger Physiker“ als

ordentliches Mitglied *)

(jährlicher Mitgliedsbeitrag: 10 Euro)

außerordentliches Mitglied *)

(jährlicher Mitgliedsbeitrag: Freie Spende)

*) zutreffendes bitte ankreuzen

beizutreten.

Persönliche Daten:

Frau Herr

Titel:

Vorname(n):

Nachname:

Adresse:

Straße und Hausnummer:

Postleitzahl:

Ort:

Sonstiges:

Email Adresse:

Telefonnummer (optional):

Faxnummer (optional):

Ich bestätige, dass ich das vorliegende Formular vollständig und korrekt ausgefüllt habe. Ich erkläre mich damit einverstanden, dass meine Angaben elektronisch gespeichert und verwaltet werden. Eine Veröffentlichung der Angaben (ausgenommen Name) im Mitgliederverzeichnis findet nur auf meinen ausdrücklichen, jederzeit widerrufbaren Wunsch statt. Keinesfalls werden meine Daten an Dritte weitergegeben.

Ich erkläre mich mit den Statuten des Vereins einverstanden.

Ort, Datum:

Unterschrift:

Take your Notes

Sponsors and Supporters

The association AYPT - Forschungsforum junger Physiker thanks all its sponsors and supporters. Without their support it would not be possible to execute the AYPT.

MED  EL



**universität
wien**

Faculty of Physics



Co-funded by the
Erasmus+ Programme
of the European Union



STADT : SALZBURG



**Das Land
Steiermark**

