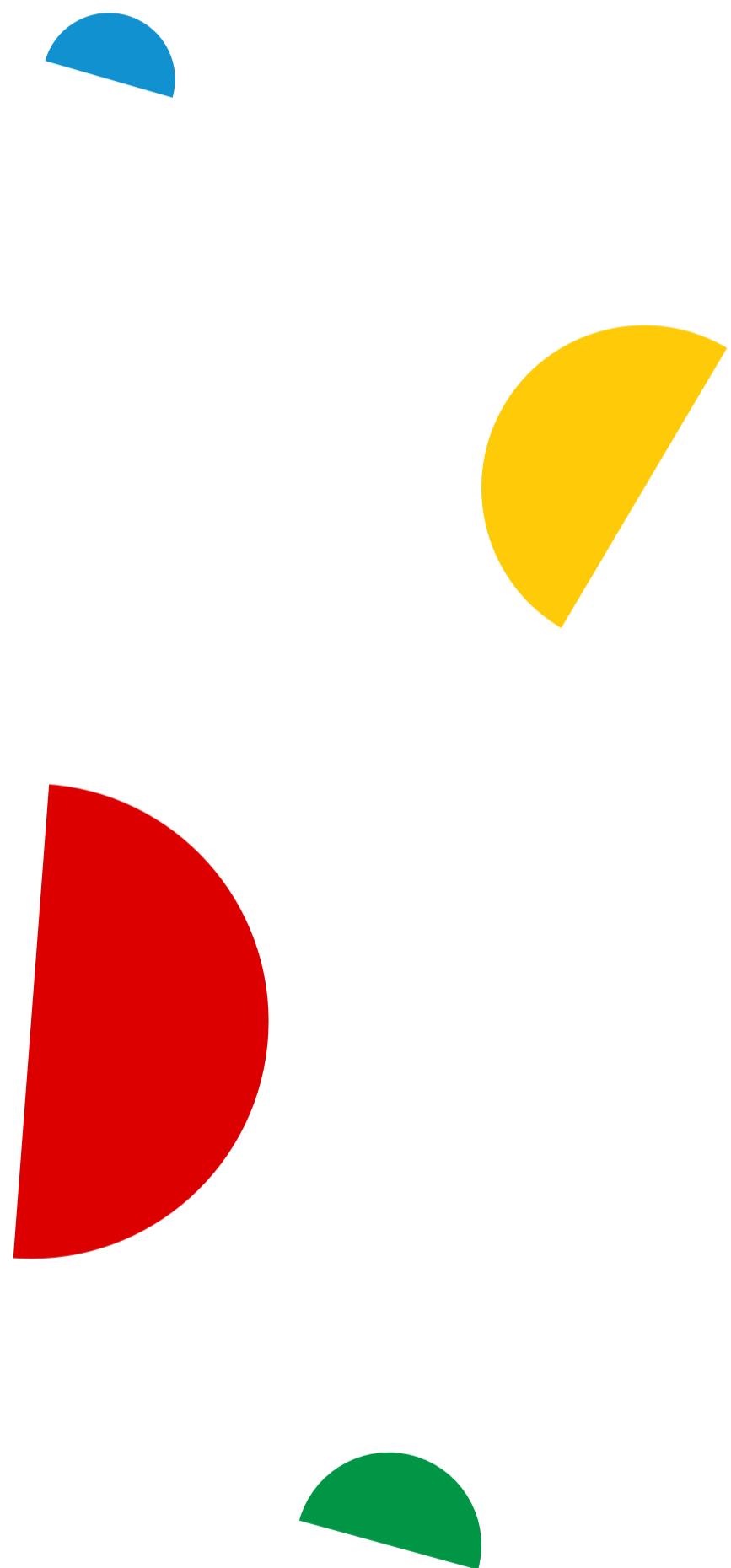




Share  
the light

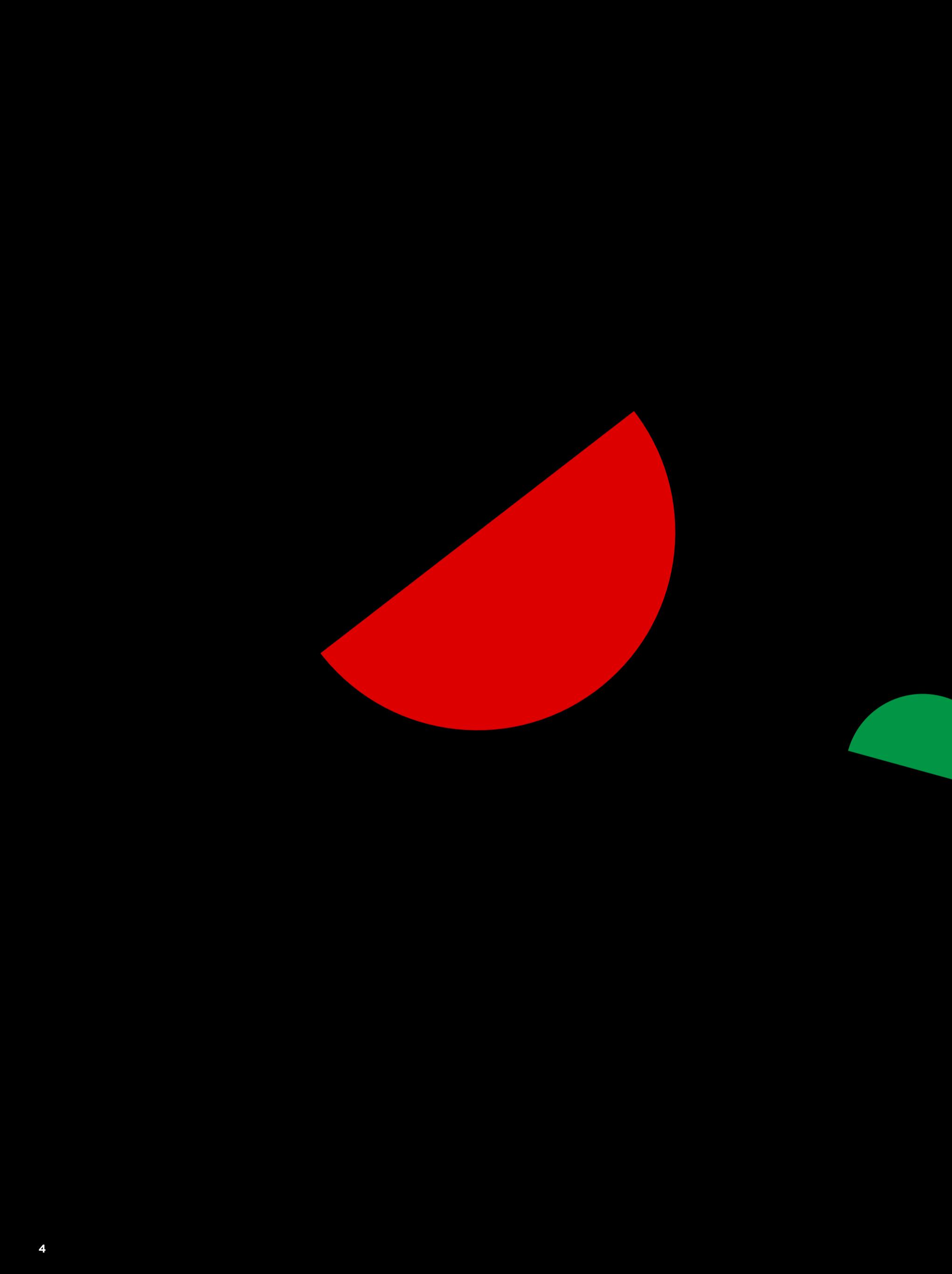
# 51st International Physics Olympiad





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# Welcome words





**Dear Participants of the  
International Physics Olympiad,**

I extend my greeting to the best young physics talents and team leaders from nearly eighty countries of the world who - virtually come together for this unique venture organized this year in Vilnius, Lithuania, rightly described as a country of science and innovation.

Here you will embark on an intellectual journey to test your knowledge of physics. You will delve into the waters of science that indisputably affect many aspects of life in today's global world. Physics is at the core of most important scientific discoveries, the driving force of technological and economic progress. It means that you – smart young generation – have our future in your hands.

Therefore, it is a great pleasure and privilege for Lithuania to welcome you to this international level event – a true celebration of valuable experience, development, new meetings and contacts.

Let preparatory work and participation in the Olympiad help you choose a career path, encourage to become leaders in education, new technologies and business through knowledge required for human progress in these times of innovation and challenge.

I wish your efforts to translate to outstanding results, innovative ideas and decisions.

The best of luck to all of you!

Gitanas Nausėda  
President of the Republic of Lithuania



Dear heads of delegations,  
participants,

I have a great pleasure to address you from Vilnius and I am delighted that Lithuania has the honour of hosting the 51st International Physics Olympiad.

Of course, we would be even happier if we all could meet face-to-face. However, we hope that the Olympiad, which will take place remotely, will also be a good practice and a successful personal experience for you. I hope that you will find new friends, get to know the country and that you may decide to visit us when you have an opportunity.

I am thankful to Professor Edmundas Kuokštis of Vilnius University and his team who have prepared interesting tasks for you, and pleasant activities to relax and to get to know each other.

Lithuania is proud of its nature, culture, sports, business, and economic achievements. We are especially proud of our scientists and innovators, particularly in the fields of biotechnology, lasers, information technology, robotics, medicine, and others.

We are a country that loves to learn and aspires to grow and create constantly. We are one of the first to embrace innovation in a variety of areas. We have excellent universities that warmly accept those interested in science, and we actively help to create innovative start-up businesses. The ideas and enthusiasm of young people lead forward and inspire others.

Together with our physicist community, I congratulate the delegations of 80 countries on joining us and sincerely wish everyone creativity and success in achieving the best results. I wish you an exciting and successful Olympic week!

Dr. Jurgita Šiugždinienė  
Minister of Education, Science and Sport of the  
Republic of Lithuania



### 51st International Physics Olympiad (IPhO) organized by Lithuania from 17-24 July 2021

marks the beginning of a new era with it being the first ever IPhO wherein participants take the examination, physically, in their own country in a way like past IPhOs but with exam problems presentation/discussion/translation, invigilation, marking, moderation, International Boarding Meetings, opening/closing ceremonies, and all other social, scientific, and cultural programs being organized online through virtual platform. While the student participants and the team leaders are going to miss the real on-site experience of the Lithuanian food, culture, history, and hospitality, the organizing committee of IPhO2021 has done its best to provide the participants a wonderful range of virtual activities that include social networking, virtual tourism, lecture by Nobel Laureate Professor Didier Queloz, cultural show with Lithuanian dance and music, etc. The organizing committee has worked hard and tirelessly, under the most difficult circumstances which humanity has experienced in last many decades with many changes in IPhO organization planning due to ever changing situations due to COVID-19, to make the academic and IPhO participation experience, even though virtually, a memorable one for its participants.

IPhO2021 is the first ever online IPhO so it is going to be a new, entirely different, as well as an important learning experience for both the organizers and the participating teams. Just like in any other on-site IPhO, but more so because of being the first ever online venture, we may expect some hiccups, some disruptions, and some nervous moments during the IPhO 2021. It is going to be a benchmark event for all of us, something that needs to be carefully catalogued for all future references. I strongly believe with mutual support and synergistic cooperation between the organizers and the participants we will overcome the challenges that we will face in this new-normal and the IPhO2021 will emerge as an important milestone event in the IPhO history. Let us work together to make this Olympiad a success. I wish good luck to all student participants in their pursuit of academic excellence. Thank you very much!

A handwritten signature in black ink, appearing to read "Rajdeep Singh Rawat".

Rajdeep Singh Rawat  
President IPhO



Dear IPhO 2021 participants,

We are very excited and honoured to host the 51st International Physics Olympiad! The international situation has been disrupted by the Covid-19 pandemic, which is continuing to spread around the world. Due to these unfavourable circumstances we had no choice but to organize this biggest international event of the global young physics community online. It is equally challenging for us, as well as for you, especially in organizing the experimental problem part of the exam. That said, we do believe that all the difficulties will be successfully overcome by our mutual endeavor. I hope the new form of Olympiad will enrich us with new and exciting aspects of healthy competition, fair cooperation and scientific knowledge to our community in all the participating countries, thus contributing to the overall success of the 51st International Physics Olympiad.

We strongly hope you will enjoy your experience during this week of IPhO 2021 in Lithuania. We wish you all the best in this Olympiad competition!

Prof. Dr. Habil. Edmundas Kuokštis  
Chairman of IPhO 2021 Academic Committee



Dear IPhO 2021 participants,

Due to the works of great physicists such as Isaac Newton, Albert Einstein and many other ingenious and creative individuals, today, at this time we can all be together at the 51st International Physics Olympiad though some of us are physically thousands of kilometers apart. The present situation worldwide does not provide us with the opportunity of shaking hands in Vilnius, but all the Organizing team of this great physicists' celebration is here with you. We will spare no effort to make your participation in the Olympiad memorable and leave you with only positive memories.

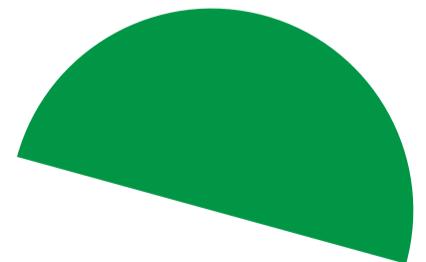
Our team is experienced in organizing international Olympiads for students but we have never worked on an event of such a grand scale and we are aware of this exceptional challenge and honour. Preparatory work for IPhO 2021 took several years. We followed the good practice of IPhO in Israel, Portugal, Switzerland and Liechtenstein. We were ready for the event to launch last year. Unfortunately, with sore hearts, we had to put the event away for a whole year. We are grateful to the countries who agreed to make changes in their plans in organizing future IPhO events.

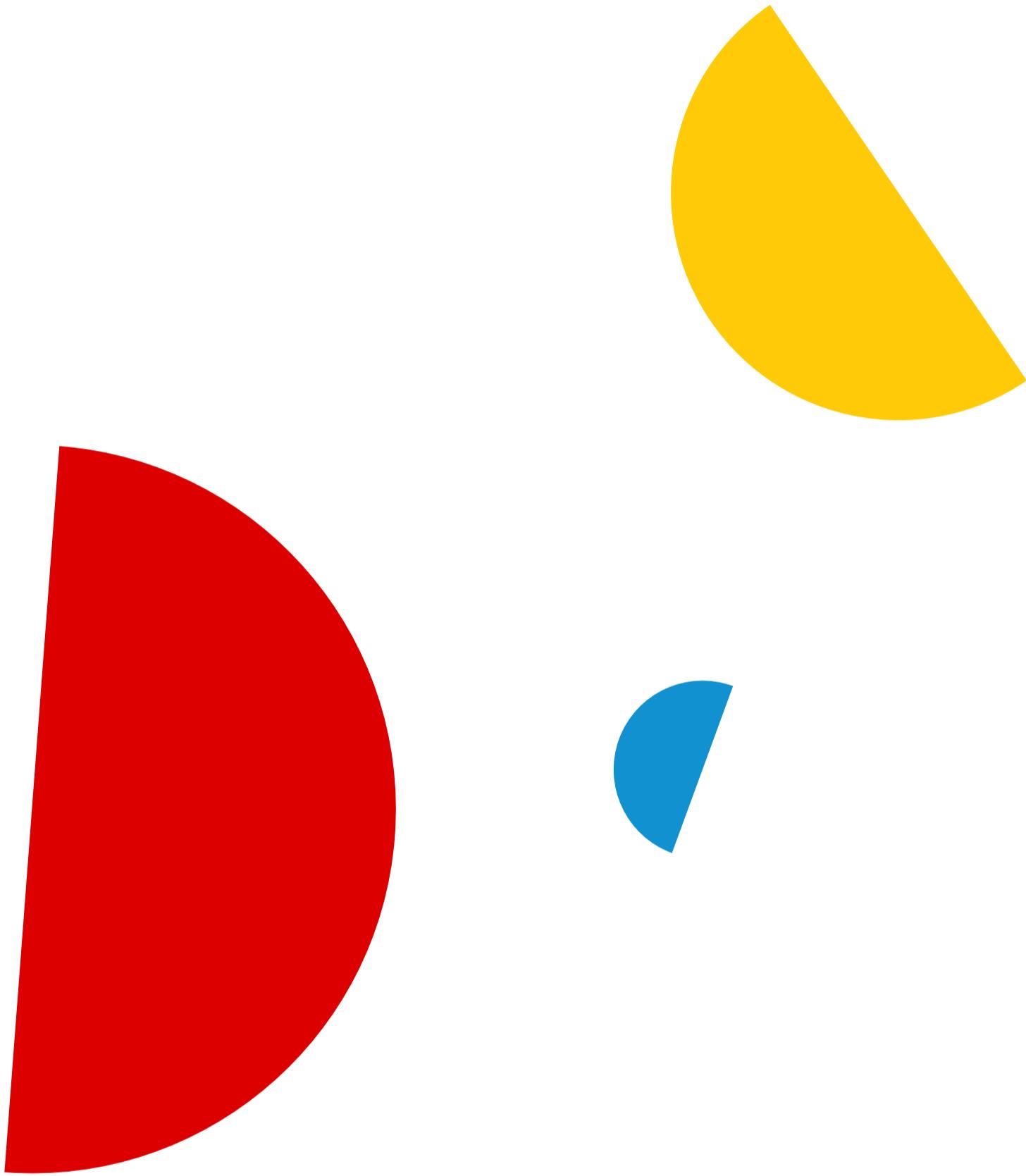
I wish to express my deepest gratitude to all who contributed in accomplishing this celebration of the world's young physicists: to the task creators, to all the organizers and volunteers, to all the partners and sponsors.

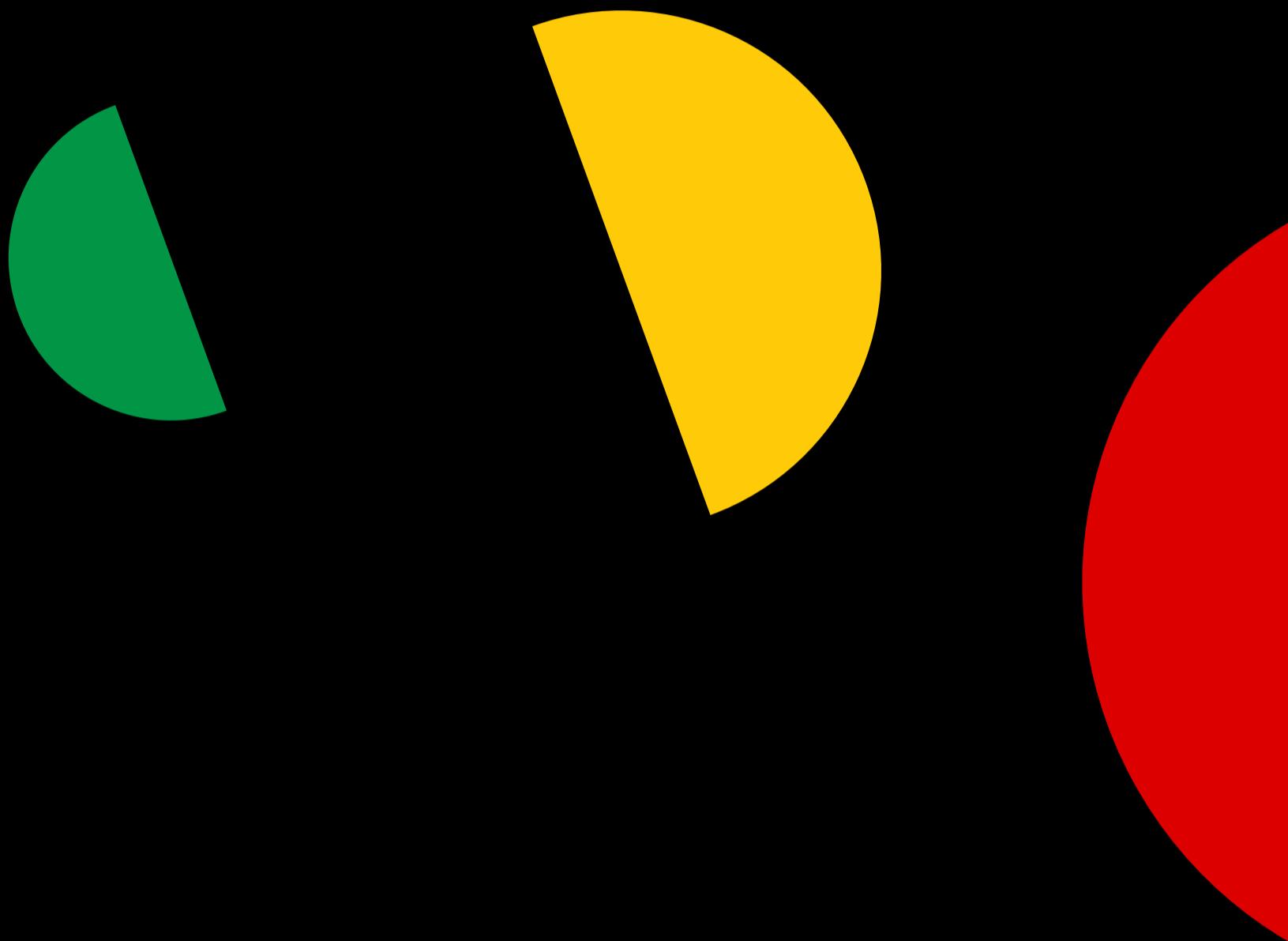
The great discoveries never happen in one day. A road to the discovery sometimes takes a long time. This road is conquered by the most persistent, the most diligent, the most curious and the most intelligent. I have no doubt you are all of those. I believe that this Olympiad will serve as a stimulus for starting your journey into the wonderful world of physics.

I wish you all the success in the Olympiad and in accomplishing your future goals!

Dr. Gediminas Beresnevičius  
Head of Organizing Committee







# About International Physics Olympiad

# What is IPhO?

In recognition of the growing significance of physics in all fields of science and technology as well as in general education of young people, and with the aim of enhancing the development of international contacts in the field of school education in physics, an annual physics competition is organized for secondary school students. The competition is called the International Physics Olympiad (IPhO) and is a competition between individuals.

## A short history of the Olympiad

The success of the International Mathematics Olympiads (which are organised since 1959), and the positive experience gained from its organisation, greatly stimulated physicists involved in physics education to organise Physics Olympiad. For the first time the International Physics Olympiad was held in Warsaw, Poland in 1967 with only 5 countries participating. Competition was organised by Prof. Czesław Ścisłowski. The Olympiad expanded during the years peaking 92 participating delegations during IPhO 2018 in Portugal. During these years many changes in delegation size, number of theoretical and experimental problems and their difficulty were introduced. Organisational and academical aspects of the Olympiad are now represented in the Olympiad's statutes and syllabus which can be changed only during International Board meetings.

Lithuania was invited to join IPhO in 1989 as a guest team. Lithuanian Delegations participate in IPhO since 1992. Since then Lithuanian students won 2 gold, 13 silver, 38 bronze medals and 44 honorable mentions in the Olympiad.

## Who can participate in the Olympiad?

Each participating country can send a delegation, normally consisting of five students and two accompanying persons.

The contestants shall be students of general or technical secondary schools i.e. schools which cannot be considered technical colleges. Students who have finished their school examinations in the year of the competition can be members of the team as long as they have not commenced their university studies. The age of the contestants should not exceed twenty years on the 30th of June of the year of the competition.

The delegation leaders must be specialists in Physics or Physics teachers, capable of solving the problems of the competition competently. Each of them should speak English.

## What type of exams are presented?

The competition has two parts - theoretical and practical exams, each five hours long, and is scheduled with one day of rest between the examinations. Theoretical exam consists of three problems while experimental exam can consist of one or two problems from various

fields of physics. Theoretical exam is worth 30 points while experimental exam gives maximum of 20 points. Problems usually require creative thinking and the scope of knowledge specified in the Syllabus of the Olympiad. Exam problems are translated by the team leaders into the contestants' languages one day before examinations.

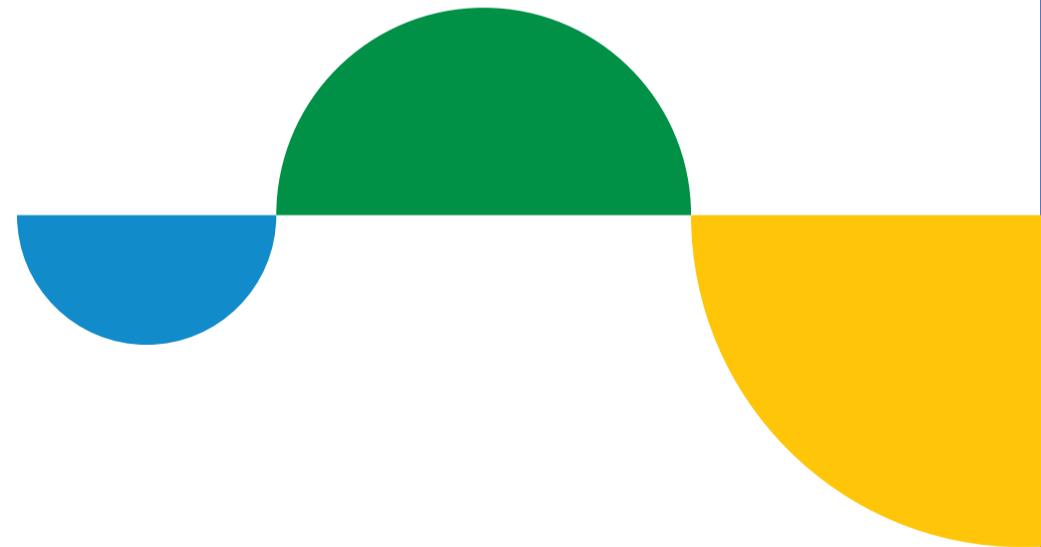
## How many contestants are awarded?

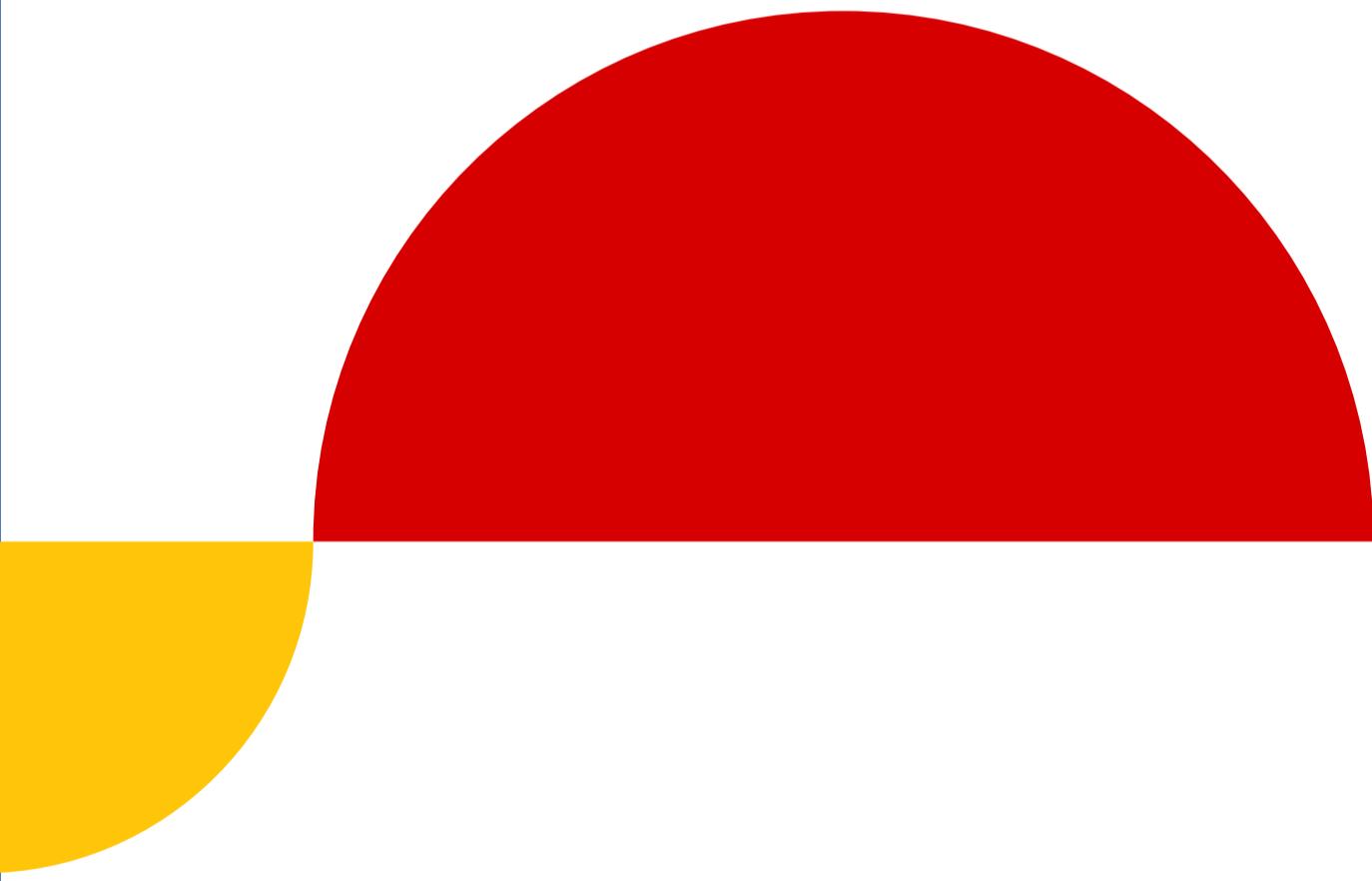
Gold Medals should be awarded to 8% of the contestants (rounded up the nearest integer).

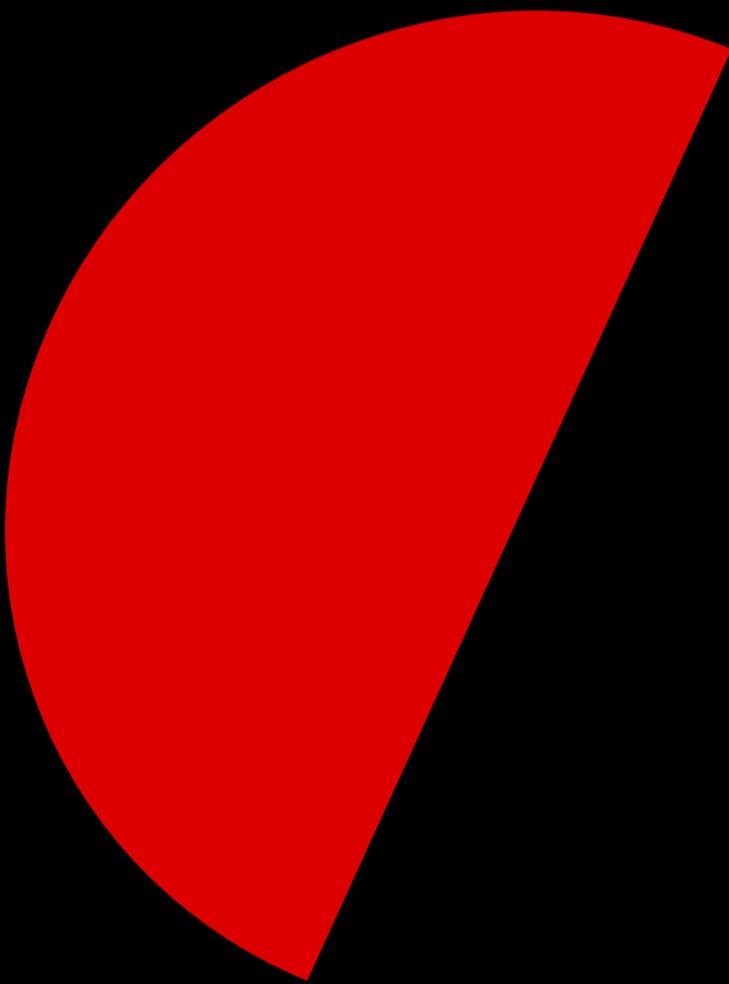
Gold or Silver Medals should be awarded to 25% of the contestants (rounded up the nearest integer).

Gold, Silver or Bronze Medals should be awarded to 50% of the contestants (rounded up the nearest integer).

An Olympic Medal or Honorable Mention should be awarded to 67% of the contestants (rounded up the nearest integer).







# About Lithuania



# Lithuania: a small country with a huge heart

Lithuania is not a large country in its territory, but its history and culture can hardly be summed up by the word "small". We are the people who struggles and dreams, who has put many and long lasting efforts into building our state, who has suffered long years of occupation, suppression, deprivation of freedoms but who has never stopped cherishing our own traditions, language and values which we trust. Lithuania as it comes in short passages:

## History

The name of Lithuania was first mentioned in 1009. The only king we had, was King Mindaugas, who unified the lands and founded the state of Lithuania, he ruled the lands. Few are aware of the fact that till the close of the 16th century Lithuanian state territorially stretched from the Baltic sea to the Black sea. Afterwards, the wars with Swedes and Russians wasted the country, weakened it by the conflicts with Poland and, eventually, in the 18th c. we were taken by the Russian Empire as its part. In 1918 Lithuania regained its independence but lost it in 1940 to the occupation of Soviet Union and re-established independence only in 1990. We celebrate two Independence Days every year.

## Culture

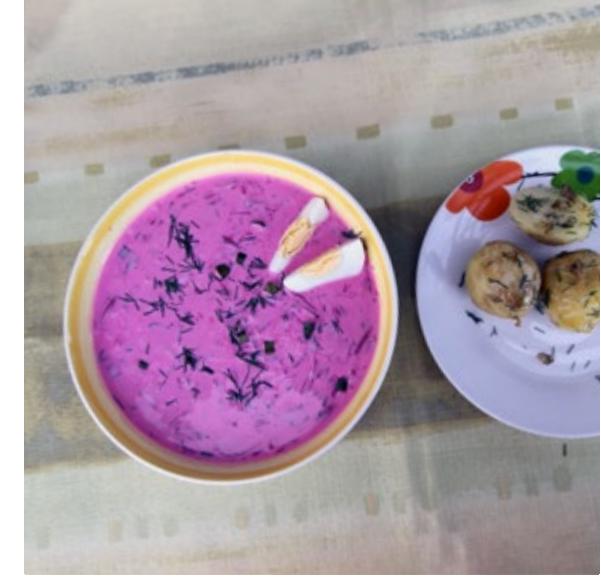
For a long time Lithuanians were faithful to their pagan faith and appear to be the last nation in Europe to accept Christianity, naturally, some ancient pagan practices are kept till nowadays. It is worth mentioning folk multipart songs - sutartines, as well as colouring of Easter eggs. Cross-crafting is included in UNESCO Immaterial World Heritage art list. You will surely be impressed by the visit to the Hill of Crosses. And by the classical music concerts, too, since many opera singers are also performing on the best stages of the world.

## Language

The Lithuanian language belongs to the Baltic group of the Indo-European language family and it is not an easy language to master. It is one of the oldest Indo-European tongues still in use. Of all Indo-European language family, it is Lithuanian language that has the largest number of endearing words and diminutives. And no other language in the world has the letter "è"!

## Cuisine

Lithuanian cuisine knows no end of potato dishes, one example is zeppelins (cepelinai), potato dumplings named after an airship. A cold beetroot soup, šaltibarščiai, is particularly popular in summer since it is nourishing and refreshing. For desserts, Lithuanians have šakotis (a tree-cake), a tall pastry cooked on a special "spit" and when finished it resembles a hollowed fir-tree.



## Folk dances

Lithuanian folk dances are a traditional folk choreography heritage. A large number of dances are meant to make merriment, but some are considered to be ritualistic. Dances often make circles, some are played as games, they are so much fun!

## Nature

The Western coast of Lithuania is washed by the Baltic sea; the Curonian spit offers views of the dunes of sand as well as the sun setting into the sea waters. The country boasts of many hiking trails by the woods, rivers and wetlands, through lake areas, hills and mounds. The landscape views can be admired from the observation spots while nature diversity is preserved in sanctuaries and reserves. Lithuania is proud of bountiful and purest groundwater sources in the world.



## Science

Lithuania offers an opportunity to get a science degree in circa 40 state and private higher education institutions. Founded in 1579, Vilnius University is one of the oldest universities in Northern Europe. Due to many outstanding physicists Lithuanian science has significantly contributed to the advancement of the research in physics. Prof. Algimantas Petras Piskarskas and other scientists created a firm foundation for laser physics research and developed laser technology into a key industry in Lithuania. Currently, Lithuanian laser industry supplies more than 50% of lasers for the global ultra-short pulse scientific market. Ninety out of a 100 top universities in the world are currently using Lithuanian laser systems. Lithuanian physicists are also known for their work in organic optoelectronics, spectroscopy, semiconductor materials and other fields.



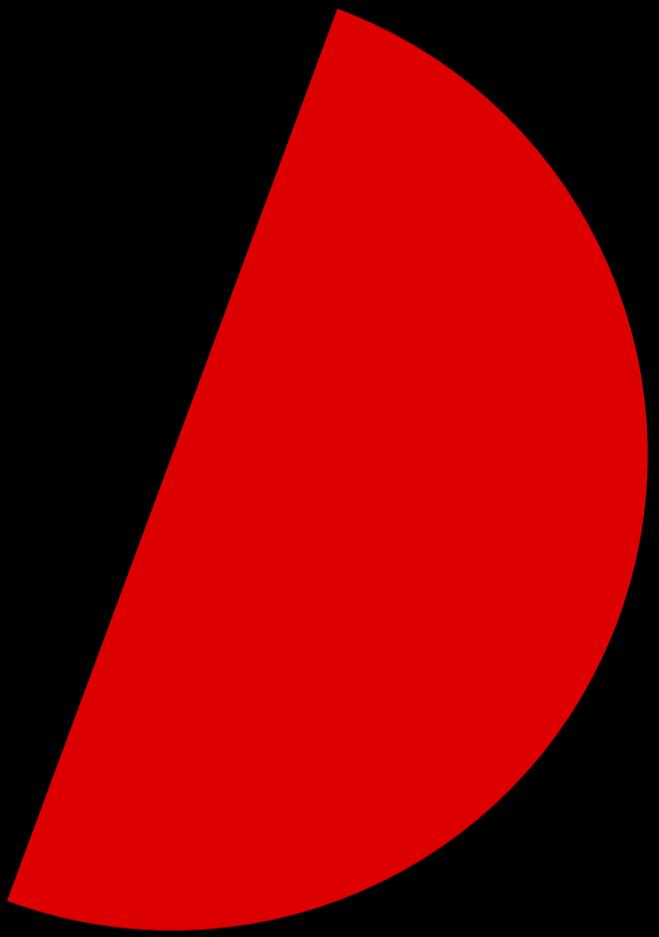
## Basketball

Lithuania is achieving high results in several sports. We have Olympic champions in discus throwing, swimming and pentathlon. Yet, it is basketball that is oftentimes called the second religion in the country. Lithuania's men national team has gained European Champions title more than once, it is also one of a very few teams that was close to victory over USA national team in Sydney Olympic Games in 2000. For a long time now many Lithuanian players are making successful careers in NBA.

## Vilnius

The capital of Lithuania offers many historic sites to visit such as the Old Town, a site included in UNESCO World Heritage Site list, Cathedral, Gediminas Tower. The city shows samples of Gothic, Renaissance, Baroque and Classical architecture. Besides, Vilnius has one of the richest verdure among European capitals. It is one of a very few cities where you can take a ride in ... a hot air balloon!





# IPhO 2021 program



# IPhO 2021 Student Program

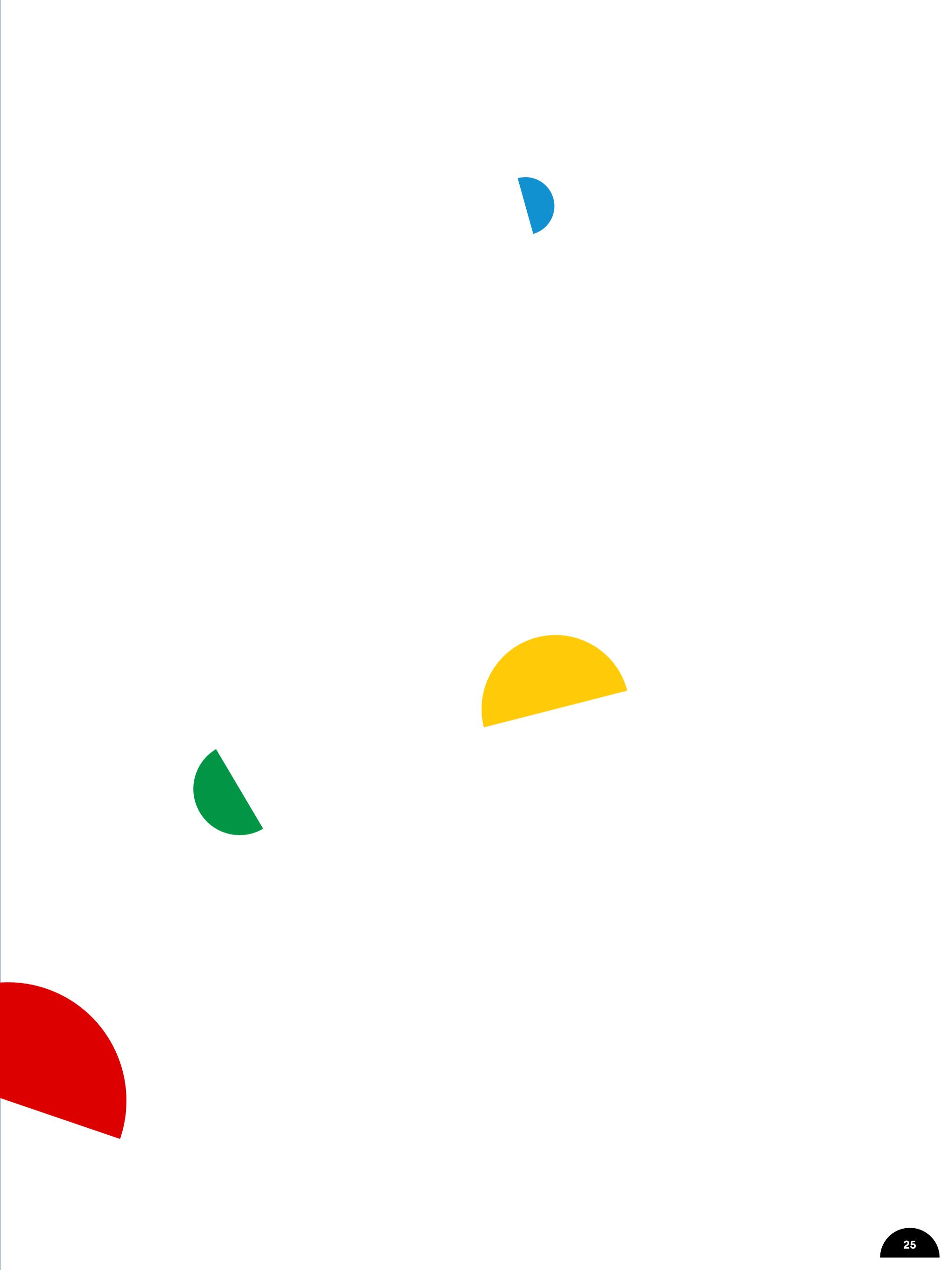
	Time EEST		Activity	Platform
<b>07 17 Saturday</b>	12:00	14:00	Social networking activities	Zoom
	15:00	17:00	Opening ceremony	Youtube
	18:00	20:00	Social networking activities	Zoom
<b>07 18 Sunday</b>	09:00	11:00	Virtual tourism activities	Zoom
	15:00	17:00	Lecture of the Nobel prize winner Professor Didier Queloz	Zoom
	18:00	20:00	Virtual tourism activities	Zoom
<b>07 19 Monday</b>	11:00	21:00	Experimental exam (5 hours in total)	Zoom
<b>07 20 Tuesday</b>	09:00	11:00	Mindfight game	Zoom, Youtube
	15:00	17:00	Lithuanian dance and music activity	Zoom
	18:00	20:00	Mindfight game	Zoom, Youtube
<b>07 21 Wednesday</b>	11:00	21:00	Theoretical exam (5 hours in total)	Zoom
	All day		Lithuanian movie night	CinemaClub
<b>07 22 Thursday</b>	09:00	11:00	Lithuanian food workshop	Zoom
	13:00	17:30	Science day lectures	Zoom
	18:00	20:00	Lithuanian food workshop	Zoom
	All day		Lithuanian movie night	CinemaClub
<b>07 23 Friday</b>	09:00	11:00	Lithuanian movie night discussion (watch the movie before)	Zoom
	14:00	17:00	Team work project presentations	Zoom
	18:00	20:00	Lithuanian movie night (watch the movie before)	Zoom
	All day		Lithuanian movie night	CinemaClub
<b>07 24 Saturday</b>	All day		Lithuanian movie night	CinemaClub
	15:00	17:00	Closing ceremony	Youtube

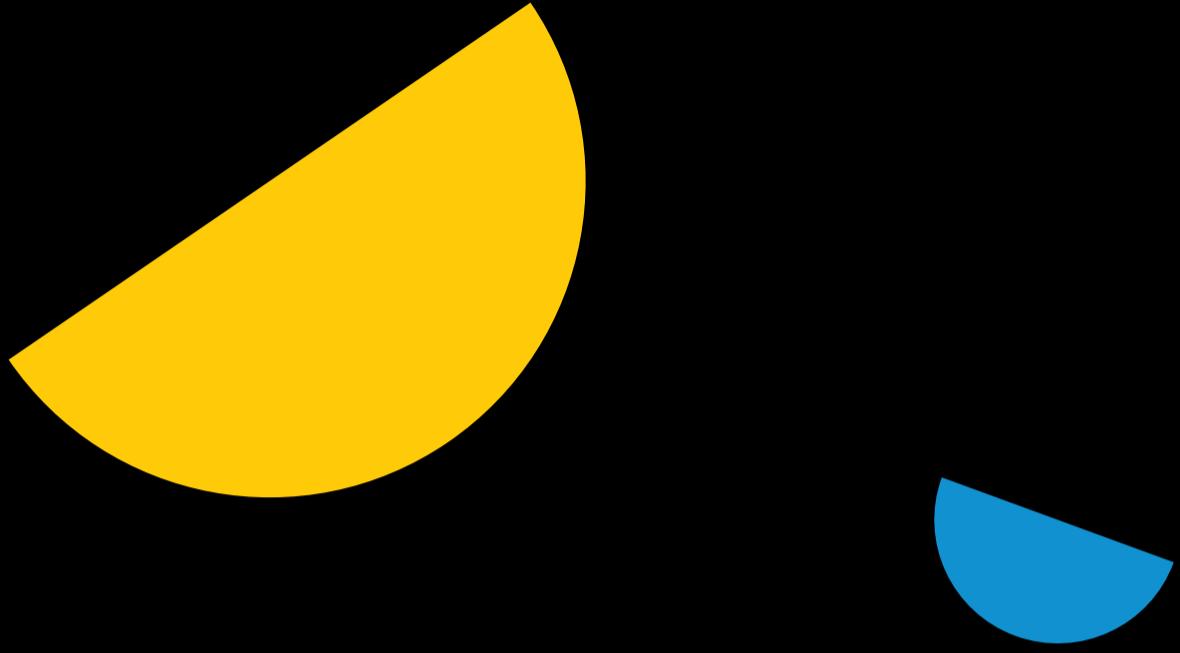
# IPhO 2021 Team Leader & Observer Program

	Time EEST		Activity	Platform
07 16 Friday	16:00	18:00	Testing call to check the communication equipment	Zoom
07 17 Saturday	15:00	17:00	Opening ceremony	Youtube
07 18 Sunday	11:00	00:00	Discussion and translation of the experimental problems	OlyExams, Zoom
07 19 Monday	15:00	17:00	Virtual tourism activities	Zoom
07 20 Tuesday	11:00	00:00	Discussion and translation of the theoretical problems	OlyExams, Zoom
07 21 Wednesday	15:00	17:00	Mindfight game	Zoom, Youtube
	All day		Lithuanian movie night	CinemaClub
07 22 Thursday	18:00	19:00	International board meeting	OlyExams, Zoom
	20:00	00:00	Moderation	Zoom
	All day		Lithuanian movie night	CinemaClub
07 23 Friday	08:00	17:00	Moderation	Zoom
	18:00	20:00	International board meeting	OlyExams, Zoom
	All day		Lithuanian movie night	CinemaClub
07 24 Saturday	All day		Lithuanian movie night	CinemaClub
	15:00	17:00	Closing ceremony	Youtube

# IPhO 2021 Invigilator Program

	Time EEST		Activity	Platform
<b>07 16 Friday</b>	15:00	16:00	Testing call to check the communication equipment	Zoom
<b>07 17 Saturday</b>	15:00	17:00	Opening ceremony	Youtube
<b>07 18 Sunday</b>	09:00	11:00	Virtual tourism activities (give students the communication devices)	Zoom
	11:00	19:00	Opening of the experiment kits	Zoom
	15:00	17:00	Lecture of the Nobel prize winner Professor Didier Queloz (give students the communication devices)	Zoom
	18:00	20:00	Virtual tourism activities (give students the communication devices)	Zoom
<b>07 19 Monday</b>	08:00	16:00	Experimental exam preparation (connect when you start preparation)	Zoom
	11:00	21:00	Experimental exam (5 hours in total)	Zoom
<b>07 20 Tuesday</b>	09:00	11:00	Mindfight game (give students the communication devices)	Zoom, Youtube
	15:00	17:00	Lithuanian dance and music activity (give students the communication devices)	Zoom
	18:00	20:00	Mindfight game (give students the communication devices)	Zoom, Youtube
<b>07 21 Wednesday</b>	08:00	16:00	Theoretical exam preparation (connect when you start preparation)	Zoom
	11:00	21:00	Theoretical exam (5 hours in total)	Zoom
<b>07 24 Saturday</b>	15:00	17:00	Closing ceremony	Youtube





**Participants:  
students, leaders,  
invigilators,  
observers**





# Armenia

## Students



Hakob Chakhoyan



Artashes Gyoletsyan



Ruben Karakhanyan



Davit Gyulamiryan

## Leaders



Dr. Bilor Kurghinyan

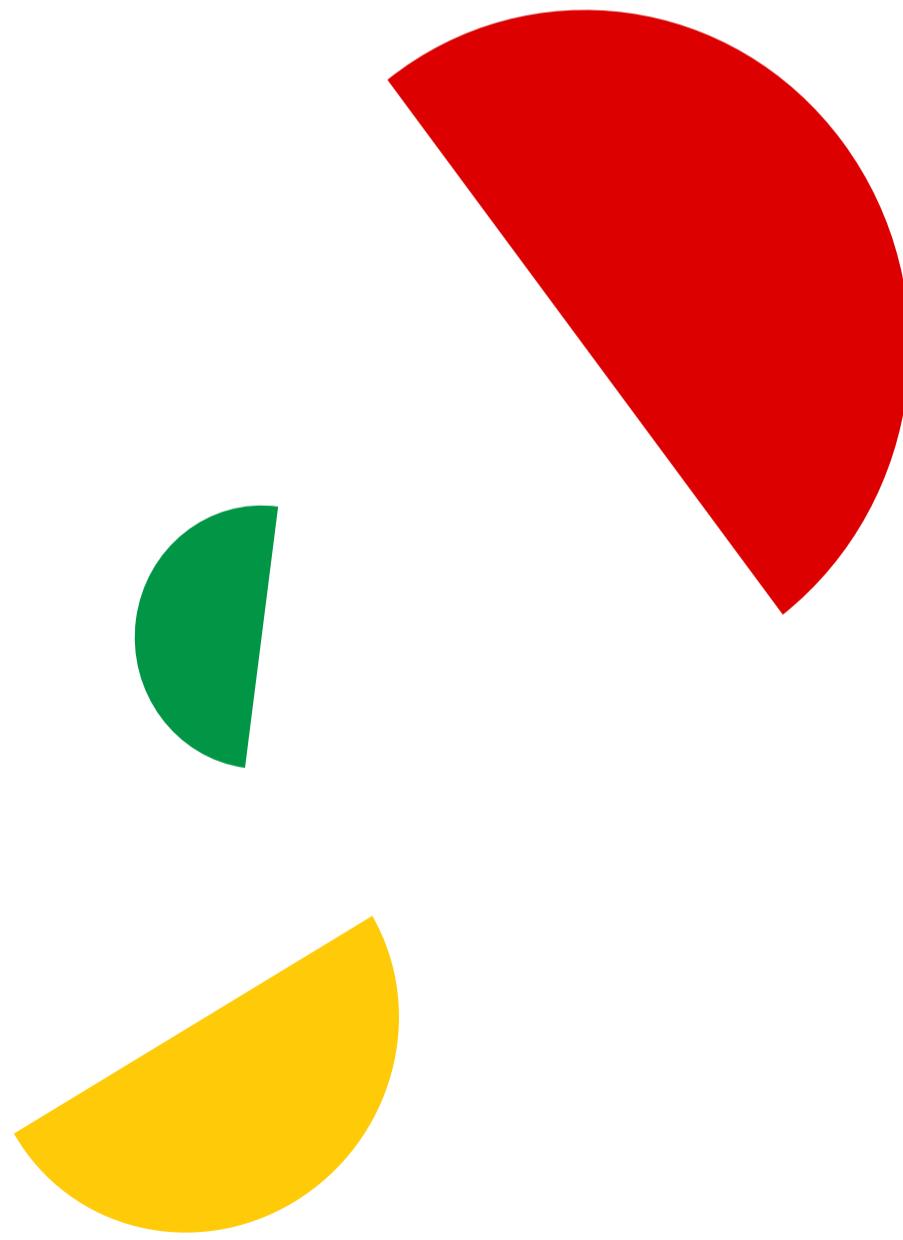


Dr. Mekhak Hayrapetyan

## Invigilator



Hrant Topchyan





# Australia

## Students



Dhruv Hariharan



James Monro



Raymond Trinh



Yalun Yang



Rune Chi Zhao

## Leaders



Matthew Verdon



Alix Verdon

## Invigilator



Claire Yung



Amy van der Hel



Joshua Maggiora



Alex Hayes



# Austria

## Students



Elias Hohl



Moritz Hofer



Miro Joensuu



Rohan Walia



Markus Rainer

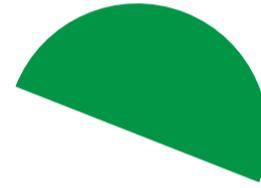
## Leaders



Marianne Korner



Dr. Stefan Lorbek



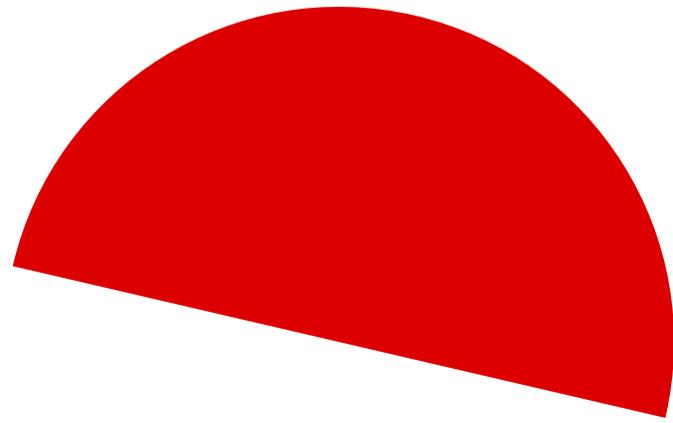
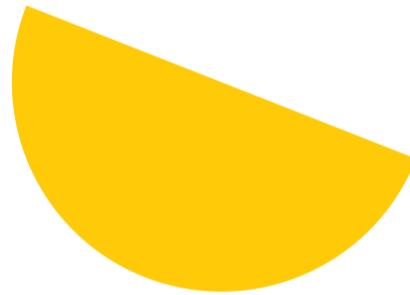
## Invigilators



Dieter Winkler



Franz Picher





# Azerbaijan

## Students



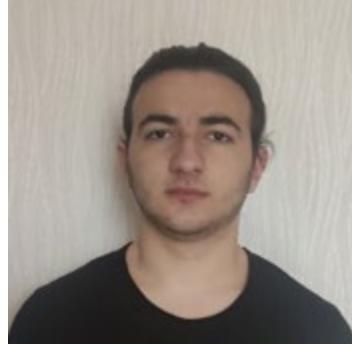
Ayhan Suleymanzade



Murad Bashirov



Siraj Yahyazade



Eshgin Aliyev



Vagif Aliyev

## Leaders



Orkhan Baghirli



Rashadat Gadmaliyev

## Invigilator



Gorkhmaz Mustafayev



# Bangladesh

## Students



Rashedul Islam



Absur Khan Siam



Golam Ishtiaq



Md Fahim Abrar



Imtiaz Tanweer Rahim

## Leaders



M Arshad Momen



Fayez Ahmed Jahangir  
Masud

## Invigilators



S.M. Masruk Uddin



Md Shaikot Jahan Shuvo



Rifakat Alim Rashkee

## Observers



Idris Ahmad Imran



Md Asaduzzaman



# Belarus

## Students



Michael Kharton



Dzianis Dziadkou



Mikita Tsybliyenka



Volha Turchyna



Timur Golubovich

## Leaders



Prof. Anatoli Slabadzianiuk

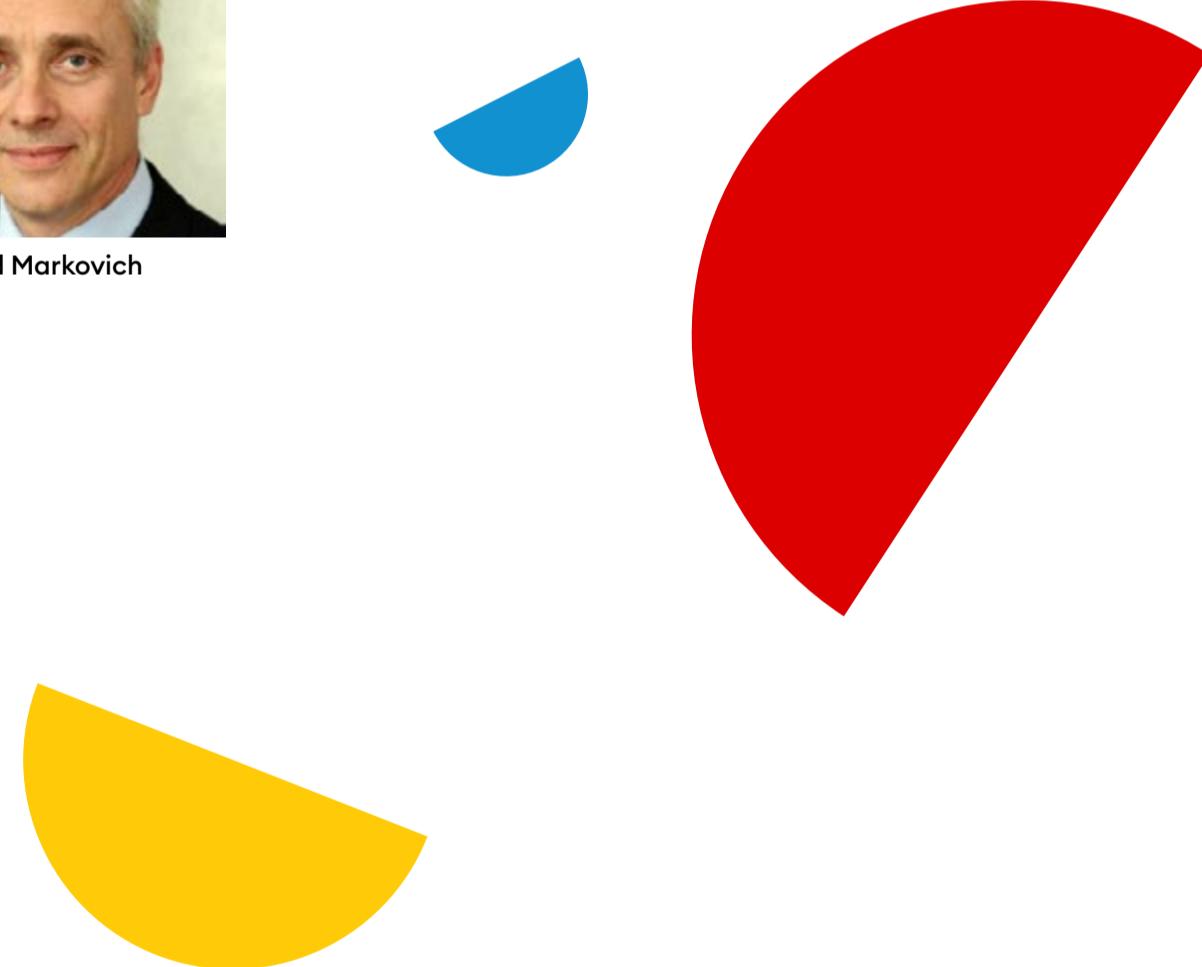


Dr. Leonid Markovich

## Invigilator



Dr. Artiom Pivavarchyk





# Belgium

## Students



Rutger Dobbelaere



Matthias Tant



Dubus Martin



Daniel Yihua J Smolders



Trung Minh D Lê

## Leaders



Prof. Leonard Philippe



Juan D'Áaz Dorronsoro

## Invigilators



Prof. Jacqueline Hellemans



Marc Beddegenoodts

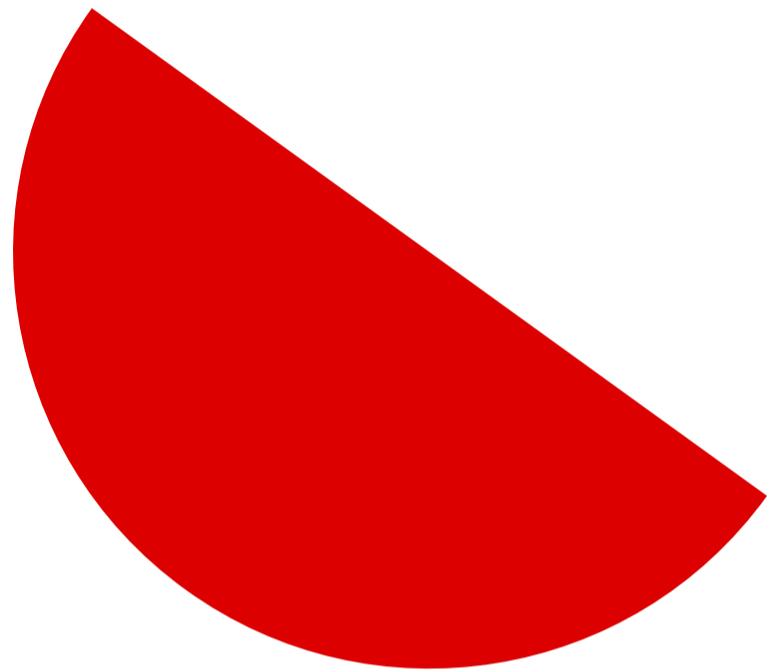


# Bolivia

## Student



Arturo Francisco Ruiz  
Mercado



## Leaders



Prof. Marko Andrade  
Uzieda

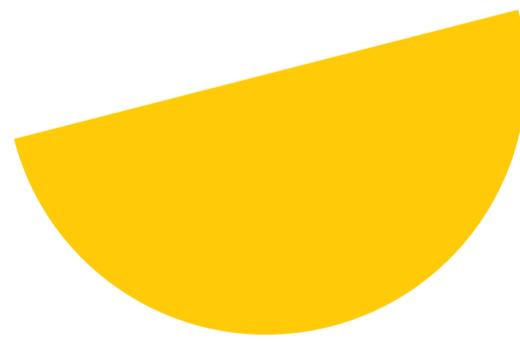


Dr. Evaristo Mamani Carlo

## Invigilator



Prof. Marco Antonio  
Taquichiri Torrez





# Bosnia and Herzegovina

## Students



Marko Vučić



Ismail Brkić



Fatih Žgalj



Dženan Midžić



Adin Frljak

## Leaders



Benjamin Fetić



Admir Papić

## Invigilators



Davor Bokan



Farah Hesham Nafi



# Brazil

## Students



Caio Augusto Siqueira Da  
Silva



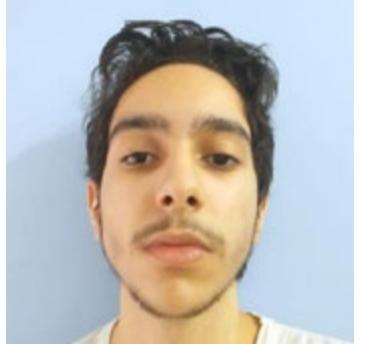
Ualype De Andrade Uchoa



Lucas Takayasu



Thiago Frota Maranhão



Alex Carneiro De Sousa

## Leaders



Prof. Ricardo Andreas  
Sauerwein



Prof. Ivan Guilhon Mitoso  
Rocha

## Invigilator



Prof. Mário César Soares  
Xavier

## Observers



Prof. Lucas Lourenço  
Hernandes



Prof. Edney Melo Rodrigues



Prof. Maria Luiza Miguez



# Bulgaria

## Students



Aleksandar Prodanov



Aleksandar Iliev



Viktor Vasilev



Vasil Nikolov



Yavor Yordanov

## Leaders



Prof. Miroslav Abrashev

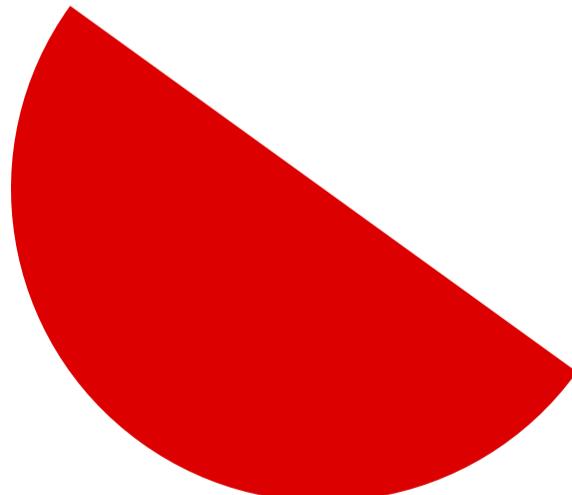


Dr. Neno Todorov

## Invigilator



Iglika Asenova





# China

## Students



Zhihan Zhang



Jingzhe Shi



Yinghao Ma



Xiang Li



Ming Jian

## Leaders



Prof. Yu An



Prof. Shuo Jiang

## Invigilators



Wanchen Liang



Lin Tang



Liuwan Zhang



Xubo Guo



Dong Ruan

## Invigilators



Liu Yang



Haoyang Yu



# Cyprus

## Students



Constantinos Frangoulides



Christos Falas



Eleni Ioannou



Giorgos Papachristodoulou



Charalampous  
Charalampous

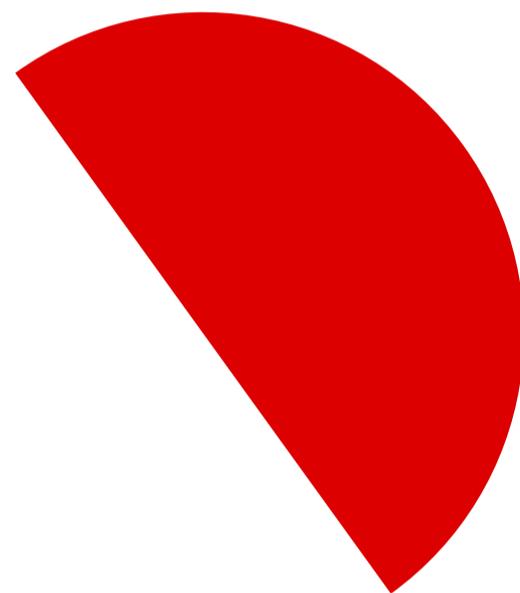
## Leaders



Theodoros Aslanidis



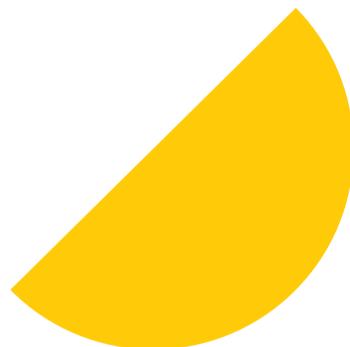
Constantina Kountouri



## Invigilator



Antreas Antoniou





# Colombia

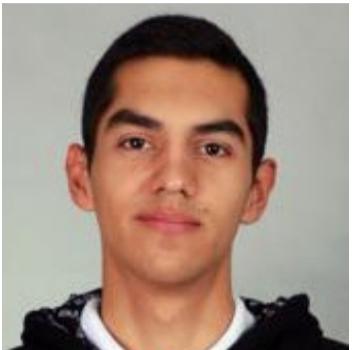
## Students



Miguel Angel Arbelaez  
Llano



Alejandra Duran Urriago



Agustin Cabrera Lopez



Juan Esteban Carlier  
Blanco



Juan Jose Lozano Gonzalez

## Leaders

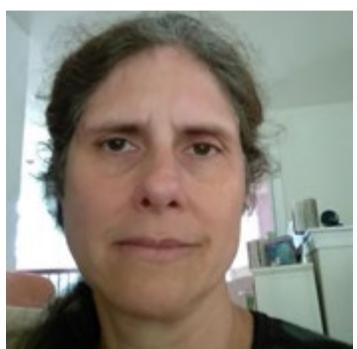


Prof. Fernando Vega  
Salamanca



Prof. Eduardo Zalamea  
Godoy

## Invigilators



Dr. Maria Elizabeth Losada



Jose Betancourt



Gabriel Mateo Mejia  
Sepulveda



Christian David Forero  
Pulido

## Observer



Prof. Elena Patricia Losada  
Falk



# Croatia

## Students



Luka Passek-Kumerički



Borna Perkovic



Grgur Premec



Roko Supe



Filip Vucic

## Leaders



Dr. Nikolina Novosel

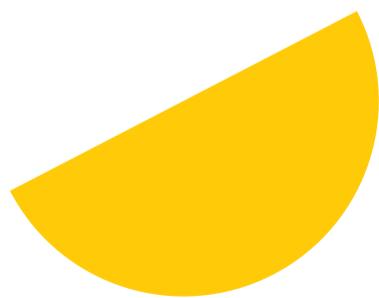
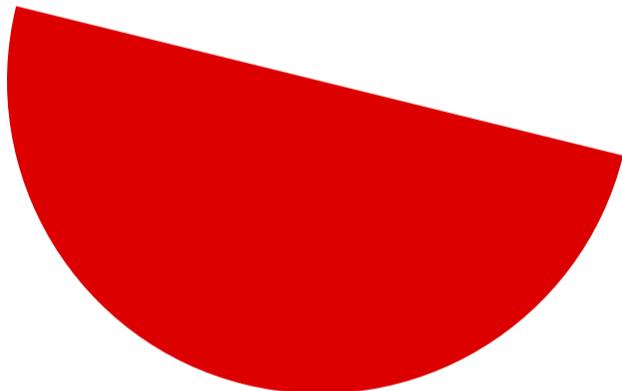


Prof. Zeljko Skoko

## Invigilator



Prof. Kreso Zadro





# Czech Republic

## Students



Matěj Dvořák



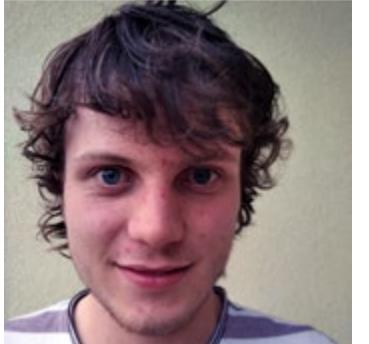
Jiří Kohl



Hynek Jakeš



Adam Mendl



Marek Fürst

## Leaders



Dr. Filip Studnička

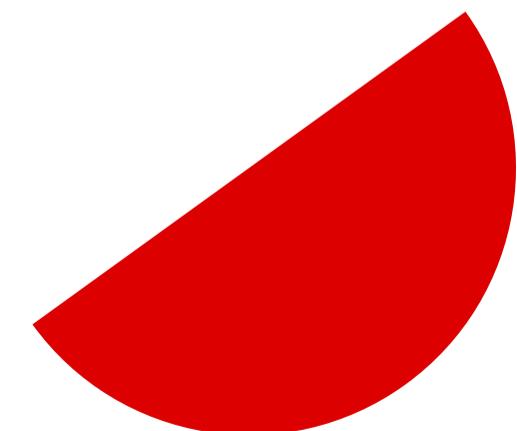


Dr. Jan Šlégr

## Invigilator



Dr. Jan Kříž





# Denmark

## Students



Sebastian Hviid-Mahon



Thorbjørn Valdemar Ræder  
Clausen



Sebastian Plank Aagaard



Alfred August Grubert

## Leaders



Dr. Michael William  
Hagemann Brix Pedersen



Dr. Jens Ulrik Lefmann

## Invigilators



Niels Christian Hartling



Sebastian Tim Holdum



Cairui Duan



# Egypt

## Students



Mohamed Ebrahem  
Abdelmigid



Saif Ahmed El-Sayed Abd  
El-Fattah



Mohammad Sobhy



Mahmoud ElneZely

## Leader

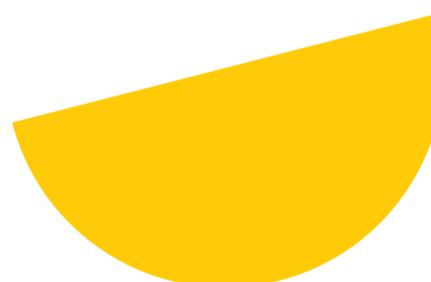
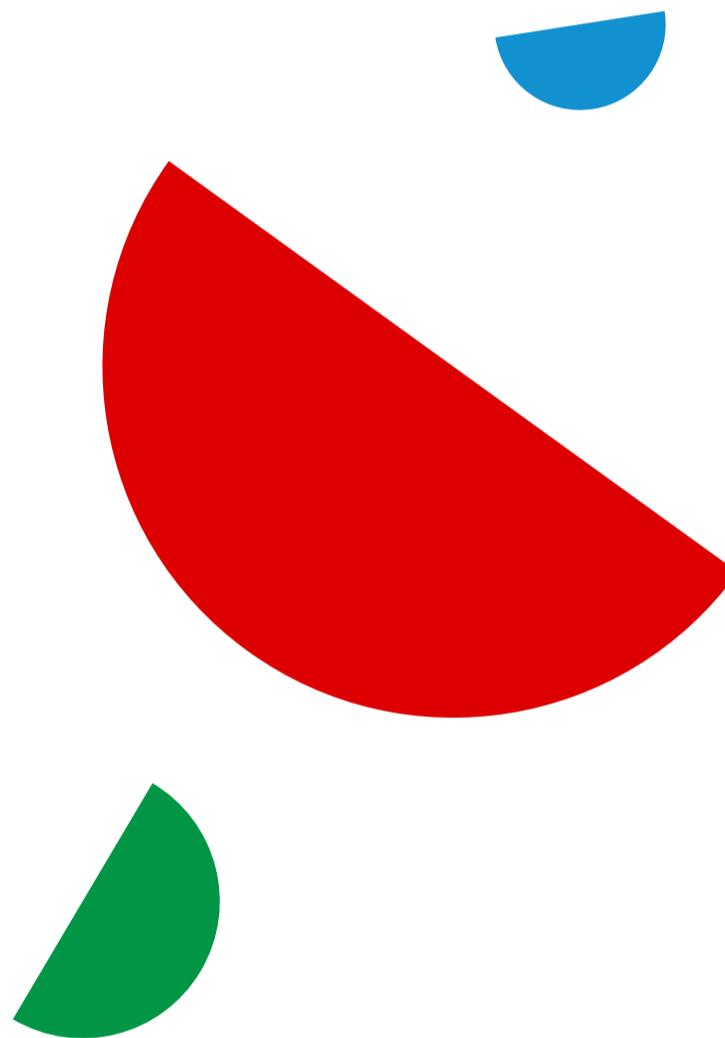


Mohamed Sharnouby

## Invigilator



Maha Rabih





# El Salvador

## Students



Keisy Nicol Ventura Gomez



Sergio Alberto Miranda  
Caceres



Sebastian Andres Arevalo  
Aguirre



Nelson Javier Quijada  
Mendoza



Ivan Ernesto Perez Mejia

## Leaders



Miguel Antonio Castro  
Hernandez



Bryan Alexander Escalante  
Castro

## Invigilator

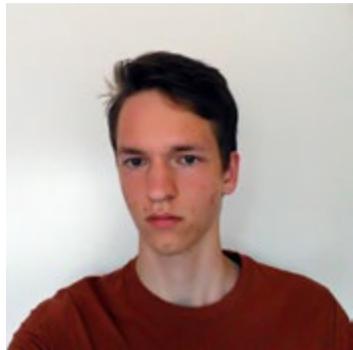


Jose Roberto Dimas Valle



# Estonia

## Students



Simon Selg



German Lužin



Uku Andreas Reigo



Joonatan Ristmäe



Richard Friedrichs

## Leaders



Mihkel Kree



Andres Pöldaru

## Invigilator



Andreas Valdmann

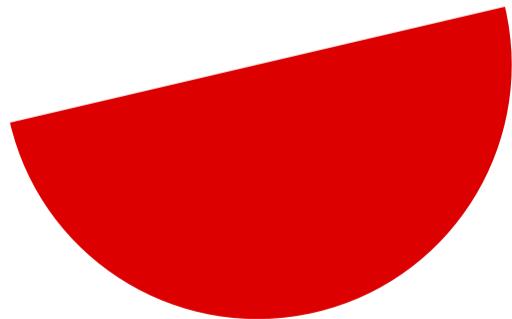
## Observers



Taavet Kalda



Kaarel Kivilalu



## Students



Henri Kärpäjoki



Eppu Leinonen



Niklas Keckman



Aaro Niinistö



Anton Petaja

## Leader



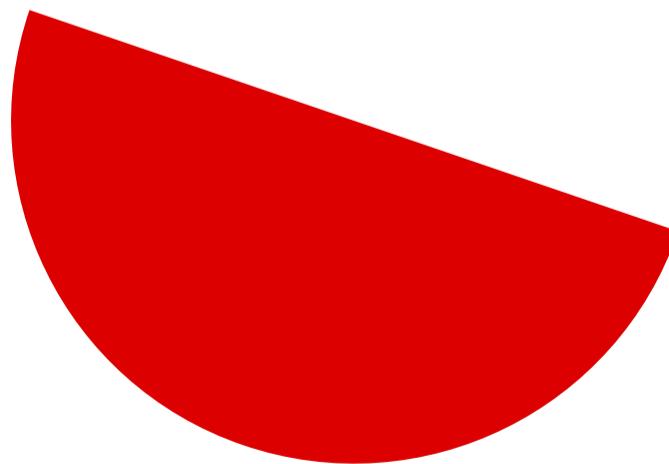
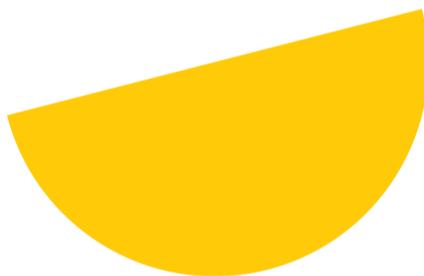
Dr. Lasse Aatos Franti



## Invigilator



Topi Löytäinen



## Students



Maximilien Bonneau



Benoît Fanton



Alexandre Fouquet

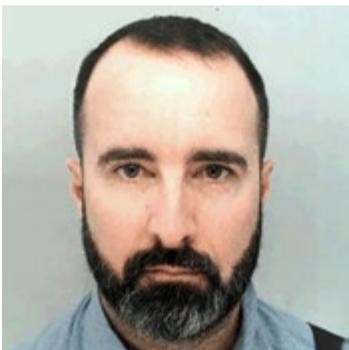


Alexandre Prats



Matthieu Weickmans

## Leaders

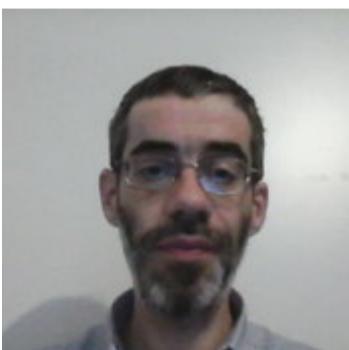


Dr. François Vandenbrouck

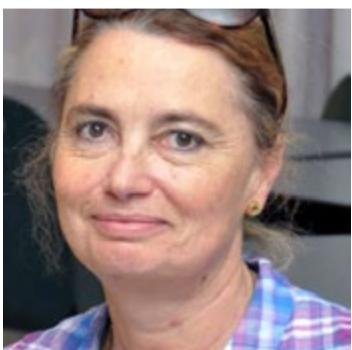


Dr. Nicolas Schlosser

## Invigilators



Dr. Nicolas Couchoud



Sophie Rémy



# Georgia

## Students



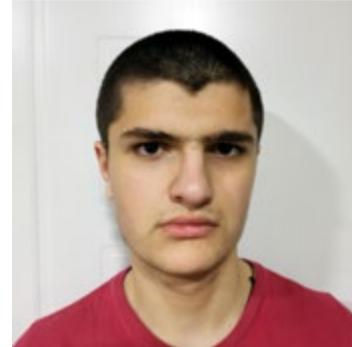
Andria Manjavidze



Nikolai Maltsev



Dachi Tchotashvili



Irakli Ugulava



Nikoloz Nikuradze

## Leaders



Ramaz Khomeriki

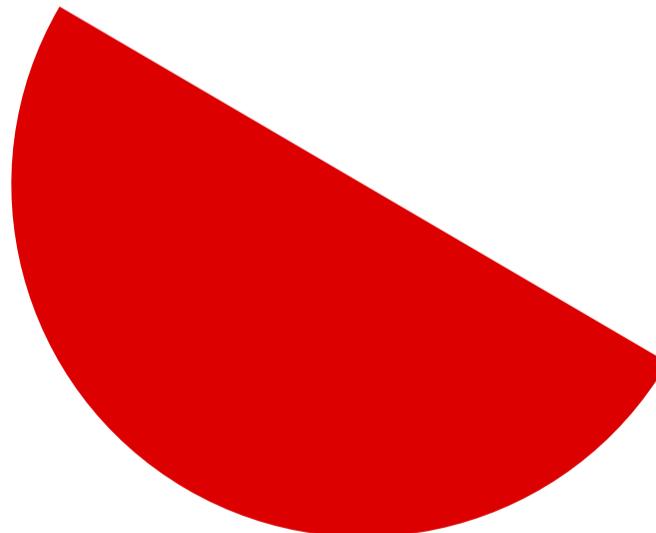
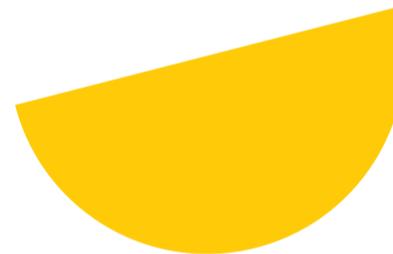


Grigol Peradze

## Invigilator



Giorgi Tsotsoria





# Germany

## Students



Andreas Feuerpfeil



Anton Tizian Haas



Jonas Hübner



Théo Lequy



Seán Sdahl

## Leaders



Johannes Felix Martin  
Rothe



Axel Boeltzig

## Invigilators



Dr. Stefan Petersen



Paul Leon Tschisgale

## Students



Marios Gavril Petrakis



Eriyli Despoina Prousalidi



Geralnto Balla



Stella Aikaterini Kyriakoydi

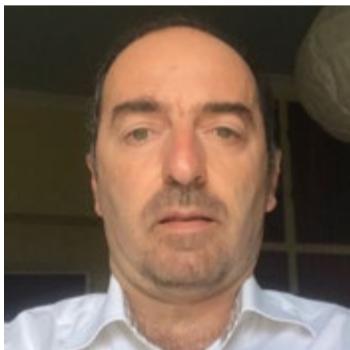


Frideriki Stampourlou

## Leaders



Dr. Panagiotis Tsakonas



Dr. Alexandros Kateris

## Invigilator



Prof. Ektor Emmanouil  
Nistazakis





# Hong Kong, SAR

## Students



Sze Chun Lau



Wai Ching Choi



Yat Long Cheng



Chun Fung Leung



Tsz Chun Chan

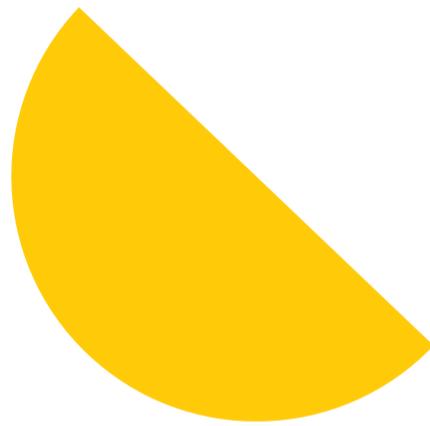
## Leaders



Dr. Ting Pong Choy



Prof. Gyu Boong Jo



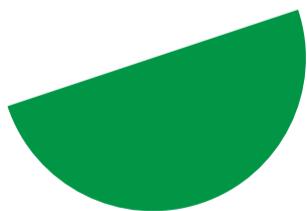
## Invigilators



Prof. Tian Wen Chen



Dr. Man Fung Cheung





# Hungary

## Students



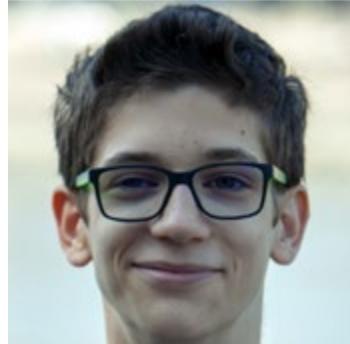
Endre Bokor



Balázs Bonifert



Balázs Csaba Kovács



Ábel Levente Tóth



Vázsony Varga

## Leaders



Dr. Máté Vigh



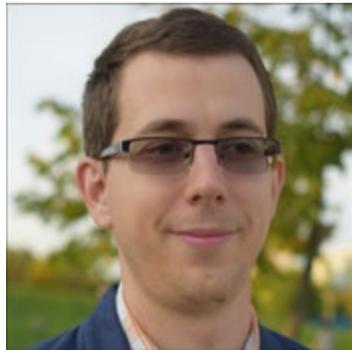
Dr. Krisztián Szász

## Invigilator



Dr. Tamás Péter Tasnádi

## Observer



Dr. Gábor Széchenyi

## Students



Jón Valur Björnsson



Hildur Gunnarsdóttir



Hilmir Vilberg Arnarsson



Teresa Ann Frigge



Oliver Sanches

## Leaders

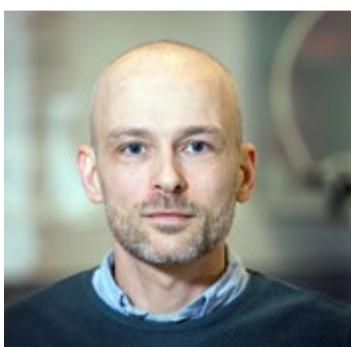


Prof. Ingibjörg  
Haraldsdóttir



Prof. Matthias Harken

## Invigilators



Prof. Unnar Arnalds



Viðar Ágústsson



# Indonesia

## Students



Dean Hartono



Edward Humianto



Joseph Oliver Lim



M. 'Anin Nabail 'Azhiim



Mario Alvaro

## Leaders



Dr. Mohammad Syamsu Rosid



Dr. Rinto Anugraha Nur Qomaru Zaman



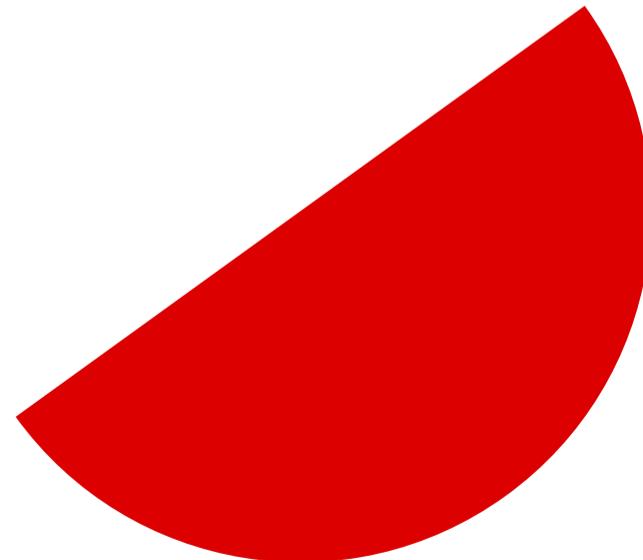
## Invigilators



Dr. Adam Cahaya



Ilim Ibrahim Umar



## Observers



Dr. Budhy Kurniawan



Prof. Bobby Eka Gunara



# Iran

## Students



Nika Zahedi



Alireza Souri



Hassan Kazemi



Borna Khodabandeh



Pouya Lahabi

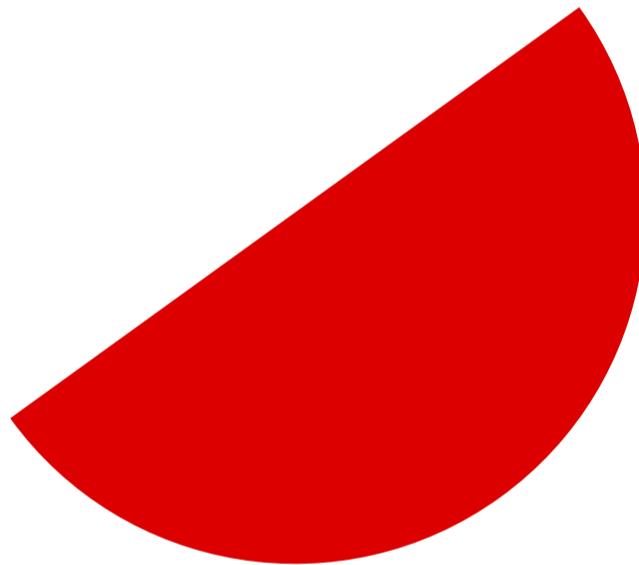
## Leaders



Prof. Ahmad Shirzad



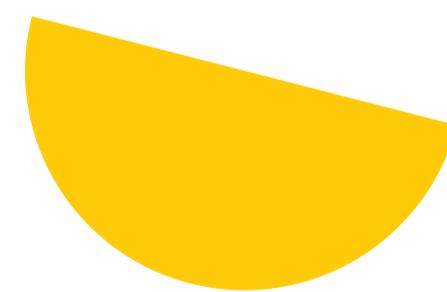
Prof. Mehdi Saadat



## Invigilator



Bahram Madadi



## Observers



Dr. Majid Fathi

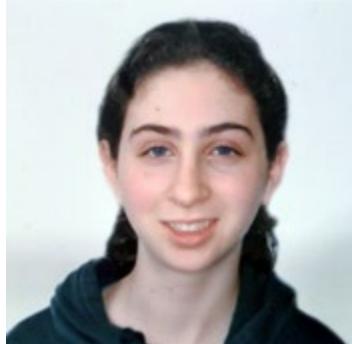


Alireza Noroozshad



# Israel

## Students



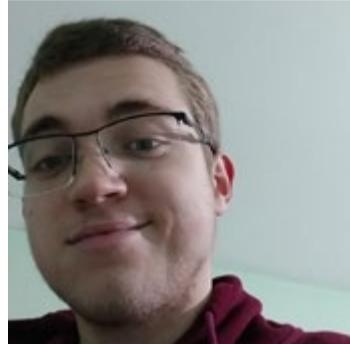
Reut Shifra Goldberg



Lior Bar Hillel



Dolev Ronen



Sean Tcherniaev



Tamir Shapiro

## Leaders



Aviv Tillinger



Dr. Itamar Hason

## Invigilators



Eli Meril



Yonatan Aharoni

## Students



Martino Barbieri



Daniele Fedeli



Marco Catapano



Giacomo Calogero



Dariel Vllamasi

## Leaders



Dr. Dennis Luigi Censi



Dr. Alberto Meroni

## Invigilators



Dr. Angelo Angeletti



Dr. Stefano Bolzonella



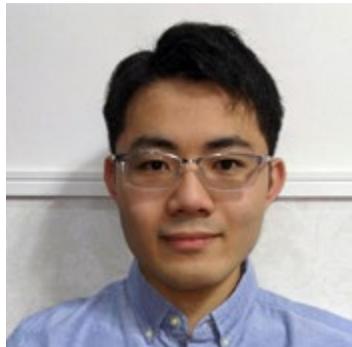
Dr. Francesco Minosso



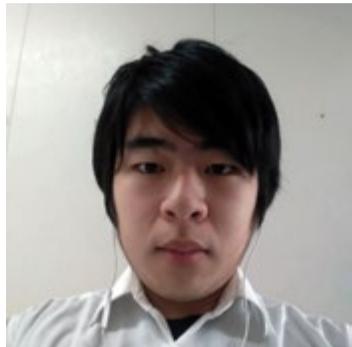


# Japan

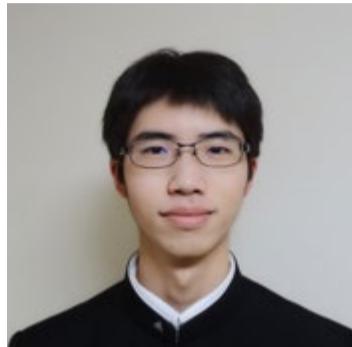
## Students



Ryoya Awano



Taiki Itonaga



Koki Kusumoto



Soma Sato



Io Murayama

## Leaders



Prof. Hiroo Totsuji



Prof. Masuaki Matsumoto

## Invigilators

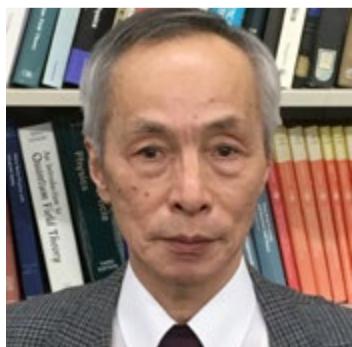


Prof. Ryugo Hayano



Prof. Yasuhiro Iye

## Observers



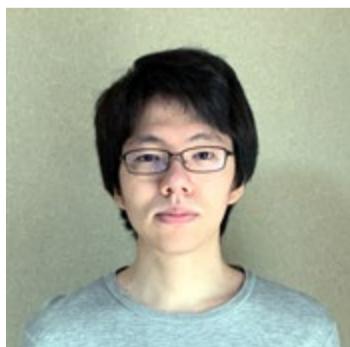
Prof. Susumu Kurihara



Dr. Tadao Sugiyama



Dr. Isao Suzuki



Tomohiro Komiyama



Akihiro Watanabe



# Kazakhstan

## Students



Dinmukhamed  
Rakhimzhanov



Anton Draganchuk



Rauan Kaldybayev



Rizabek Alpamys



Yersultan Pitebay

## Leaders



Samat Maxutov



Bekmurza Beisenov

## Invigilator



Prof. Askar Davletov



# Kyrgyzstan

## Students



Aidan Kiresheev



Artem Pogorelov



Bekali Gartman



Denis Saparbek uulu



Anel Uskenbaeva

## Leaders

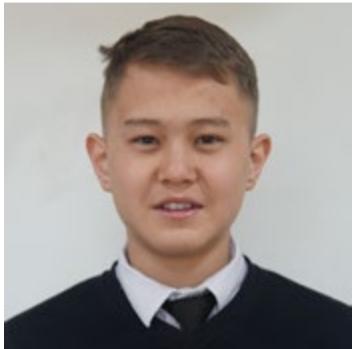


Prof. Raia Sultanalieva

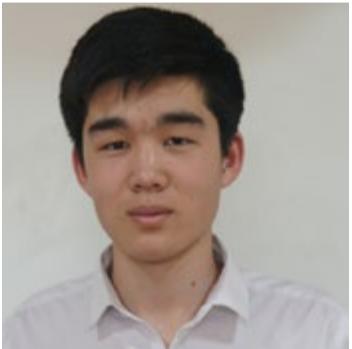


Dokturbek Kudashov

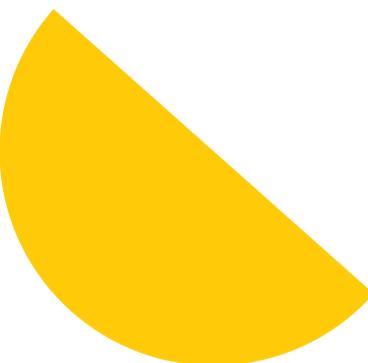
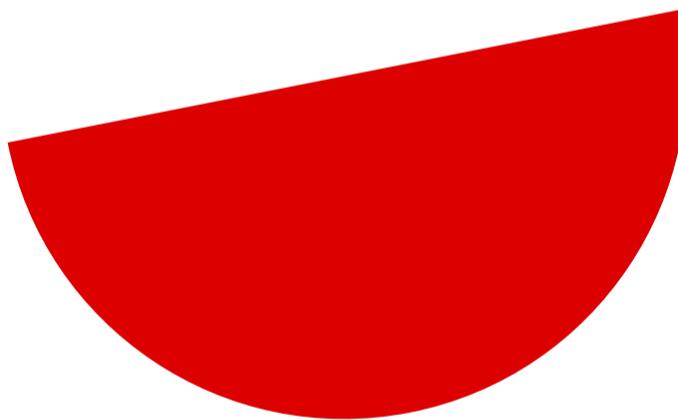
## Invigilators



Sultan Sultanidinov



Ramil Salikhar





# Korea, South

## Students



Kyungmin Kim



Sangyeon Park



Jiwoo Park



Dongchan Shin



Seunghyun Yeo

## Leaders



Prof. Moohee Lee



Prof. Gunsang Jeon

## Invigilator



Prof. Yunki Kim

## Observers



Prof. Yongil Shin



Prof. Seungchul Chae



Dr. Soojung Lee

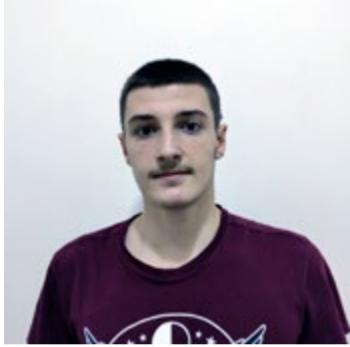


Dr. Hyeok Kim



# Kosovo

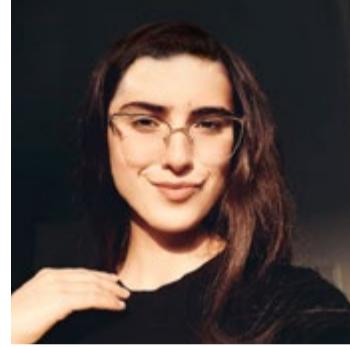
## Students



Klevis Imeri



Uran Daku



Elsa Kqiku



Albi Macula

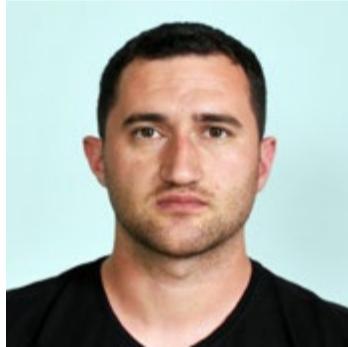


Olt Gashi

## Leaders



Zeqë Tolaj



Ibrahim Hameli



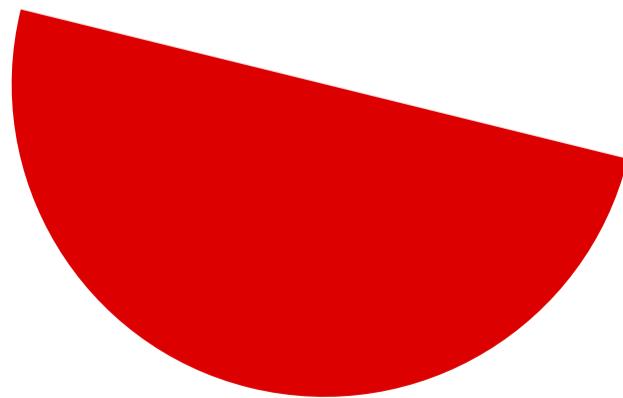
## Invigilators



Dodona Hysenaj



Fjolla Pelaj



## Students



Artūrs Aizstrauts



Agata Kuznecova



Viesturs Spūlis



Edgars Rūdolfs Vītiņš



Roberts Darkevics

## Leaders

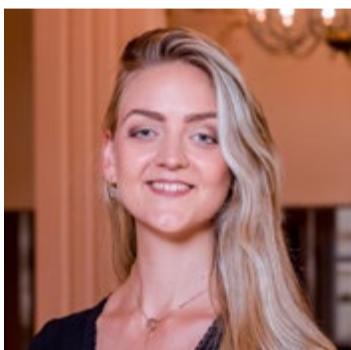


Dāvis Zavickis

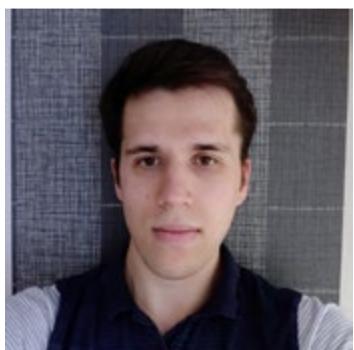


Prof. Vjačeslavs Kaščejevs

## Invigilators



Zane Lanka



Mārtiņš Klevs



# Lithuania

## Students



Emilis Strazdas



Monika Šadauskaitė



Justas Kaminskas



Tadas Danilevičius



Tomas Babelis

## Leaders



Dr. Vytautas Jakštis

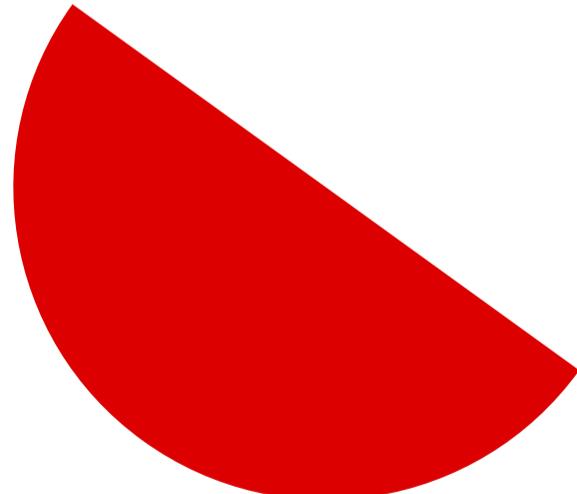


Dr. Mažena Mackoit-Sinkevičienė

## Invigilator



Justas Terentjevas





# Luxembourg

## Students



Joé Weisgerber



Rafael Dux



Sijie Ma



Max Kimmelingen



Adam Húštava

## Leaders



Annick Hoffmann



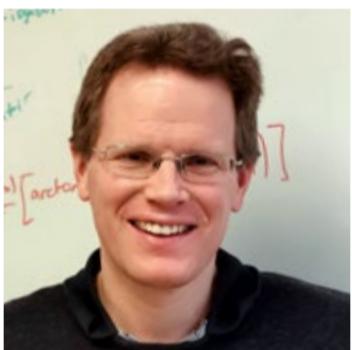
Carol Eicher



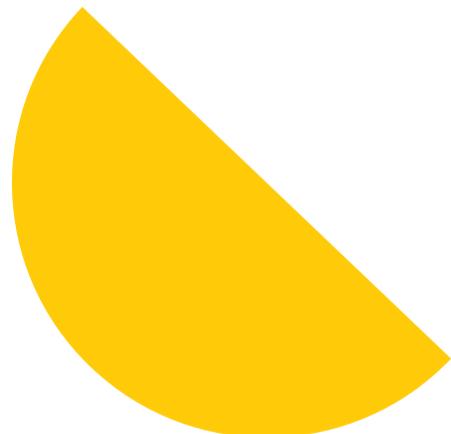
## Invigilators



Ben Kasel



Dr. Schmidt Thomas





# Macau, SAR

## Students



Lap In Leong



Ka Wa Wong



Chong Un Un



Cheng Peng Cheong



Chon Hin Choi

## Leaders



Iat Neng Chan



Si Wu

## Invigilator



Fok Wa Chan

## Students



Carlos Elishah Candanosa-Salazar



Emmanuel Martínez-Ramos



Hugo Daniel Ramirez-Loya



Daniel Tejeda-Saavedra



David Alejandro López-Torres

## Leaders



Dr. Rodrigo Pelayo-Ramos



Dr. Eleazar Neri Medina

## Invigilator

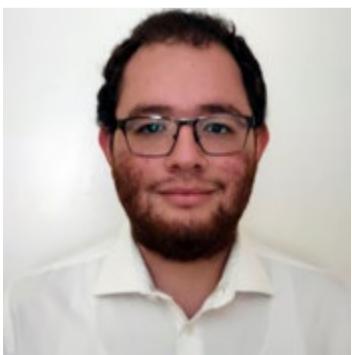


Dr. Edgar Andrés Sánchez-García

## Observers



Prof. Didier Omar Gamboa-Angulo



Prof. Fernando Flores-Ballesteros



Dr. Víctor Manuel Romero-Rochín

## Students



Marius Frija



Ştefan Nicov



Vladimir Secu



Victor Şotropa



Patrick Căruntu

## Leaders



Sergiu Cârlig



Calina Isacova

## Invigilator



Valentina Nicorici



## Students



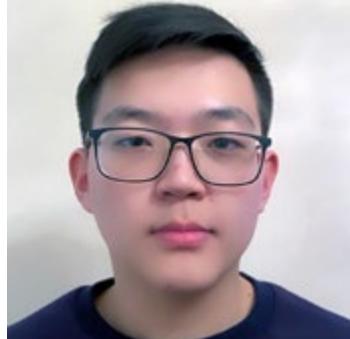
Bilguun Batbayar



Anirchuluu Otgochuluu



Uguumur Tsagaanbayar



Temuulen Baasannorov



Barsbold Enkhbold

## Leaders



Tsogbadrakh Namsrai



Dr. Munkhbayar  
Gombosuren

## Invigilator



Dulmaa Uujinbai

## Observers



Ganbat Munkhuu



Nyamsuren Ochirbat



Dr. Enkhbat Nyamsuren



Bat-Otgon Bat-Ochir



Dr. Balt-Erdene  
Khishigbadrakh



# Montenegro

## Students



Luka Ristanović



Matija Pavićević



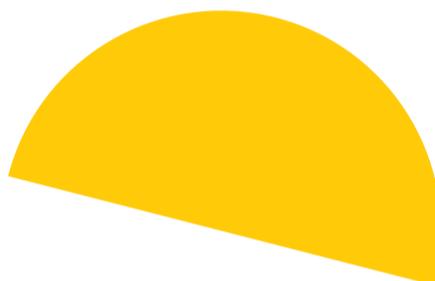
## Leaders



Prof. Stevan Đurđević



Dr. Predrag Miranović



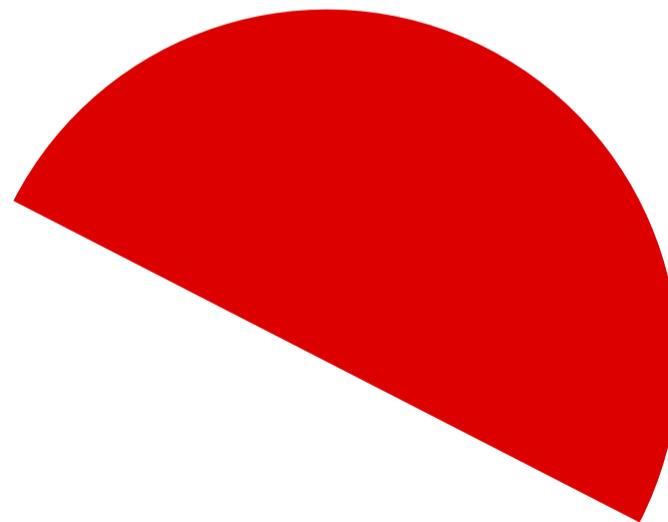
## Invigilators



Prof. Tatijana Čarapić



Prof. Momir Radulović





# Netherlands

## Students



Simon Avontuur



Revi Gerner



Dante Bosgoed



Lotte Hof



Timo Hoogenbosch

## Leaders

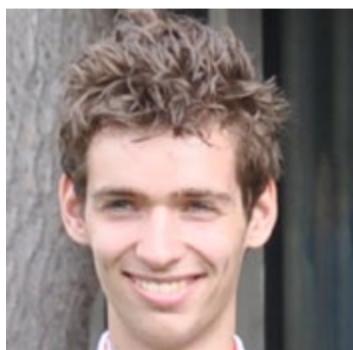


Arie Hendrik Mooldijk



Jan Enno Van der Laan

## Invigilators



Freddie Hendriks



Bouke Jansen

## Students



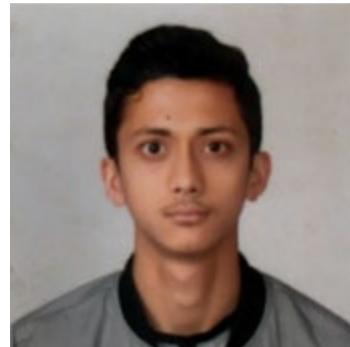
Sagar Baidhya



Sandesh Ghimire



Rahul Gupta



Bibek Khadka



Prakchesh Chalise

## Leaders



Prof. Kaphle, Gopi Chandra



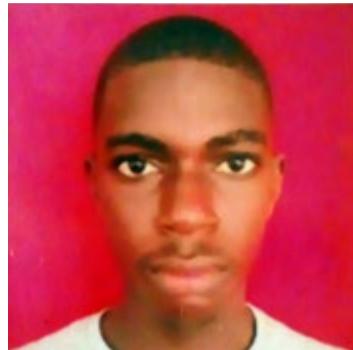
Prof. Narayan Prasad  
Chapagain

## Invigilator



Hari Shankar Mallik

## Students



Great Oluwanimilo Banji -  
Ojo



Chimzi Jones Ogbonda



Chukwuemeka Daniel  
Henry-Chibor



## Leaders



Dr. Lewis Obagboye



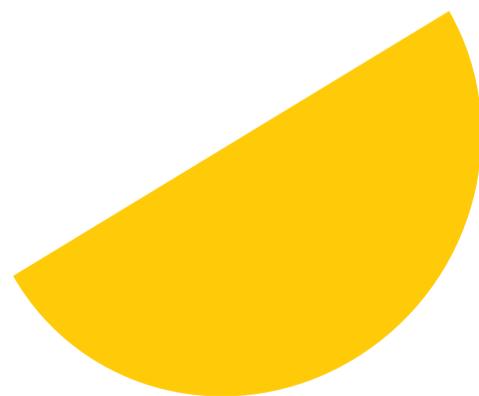
Okorie Okike



## Invigilator



Simon Ja'afaru





# North Macedonia

## Students



Majkl Georgievski



Matej Gelev



Jan Stojanovski



Dimitar Djourlev



Drago Jakimovski

## Leaders



Prof. Lambe Barandovski



Prof. Boce Mitrevski

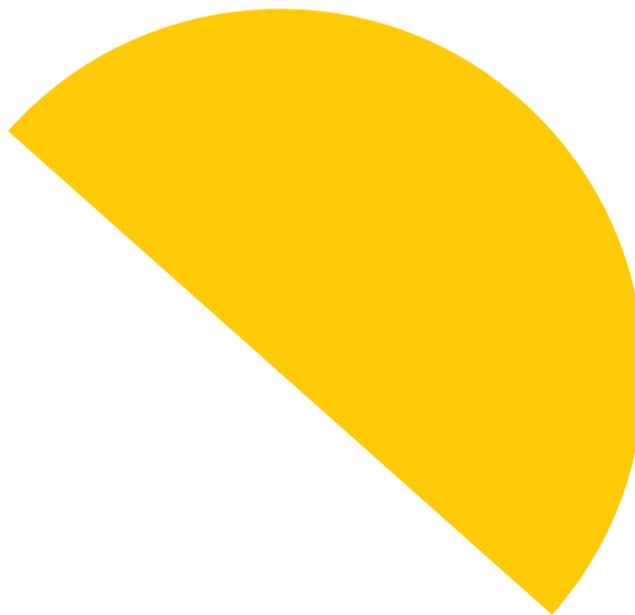
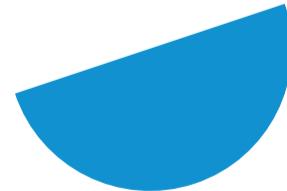
## Invigilators



Hristijan Kochankovski



Prof. Aleksandar Skeparovski



## Students



Dorte Veljkovic



Åsmund Runningen



Samuel Klouman Stoknes



Christian Burton Lyng-Olsen



Theodor Ryan

## Leaders



Dr. Torbjørn Mehl



Thomas Frågåt

## Invigilators



Anders Lauvland



Nikolai Ustad Bjurholt

## Observer



Edvard Johan Skaarberg  
Holen

## Students



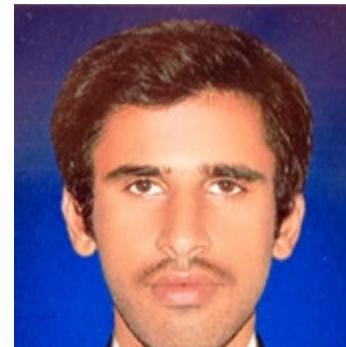
Muhammad Qasim Atiq  
Ullah



Osman Siddique



Humayl Aslam



Abdul Samian



Rana Shahzaib ur Rehman

## Leaders



Dr. Shahid Qamar

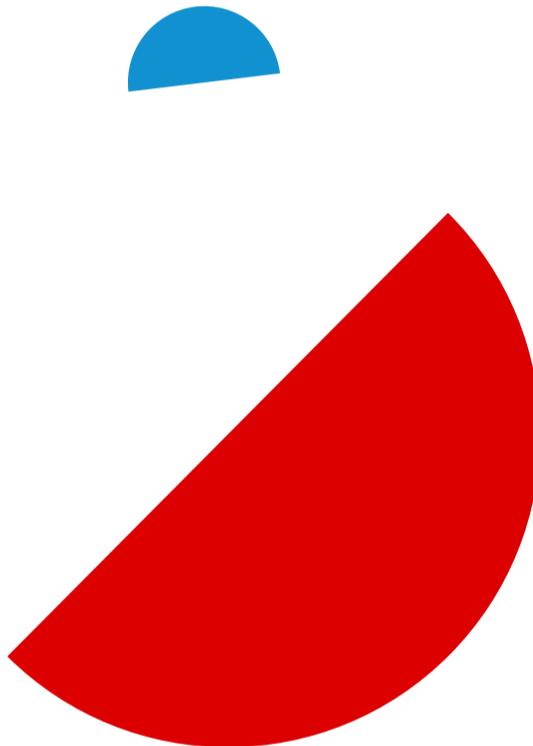
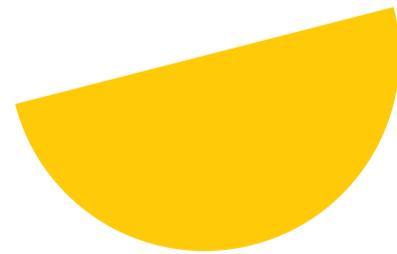


Dr. Aman ur Rehman

## Invigilator



Dr. Muhammad aftab Rafiq





# Poland

## Students



Emil Kisielewicz



Antoni Krzysztof Grabowski



Antoni Jan Skoczypiec



Miłosz Piotr Matraszek



Piotr Krzysztof Borodako

## Leaders



Prof. Jan Mostowski



Dr. Jacek Jasiak

## Invigilators



Dr. Tomasz Kazimierczuk



Kacper Oreszczuk



# Portugal

## Students



Afonso Oliveira



Gabriel Almeida



Henrique Romão



Afonso Alves



Vasco Cotão

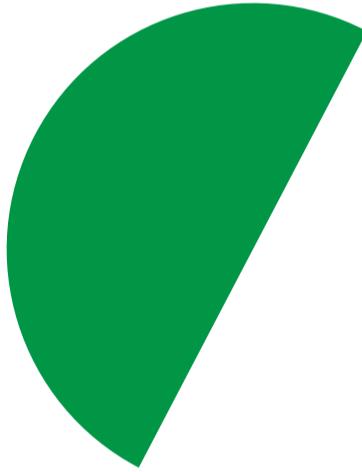
## Leaders



Rui Travasso



João Carvalho



## Invigilators



Filipa Borges



José António Paixão





# Qatar

## Students



Aditya Gupta



Yousef Al-Sulaiti



Saif Al-Sulaiti



Abdelhameed Mohammed



Mohammed Al-Sulaiti

## Leaders



Randah Mahmoud



Sherif Omar

## Invigilators



Ahmed Ibrahim



Waleed Mohamed

## Observers



Noora Al-Mannai



Rania Alqaisi



Ossama Elsayed

## Students



Vlad-Ştefan Oros



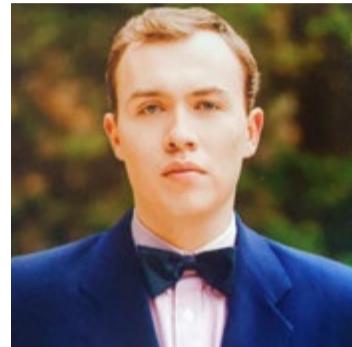
Antonia-Alma Ghiță



Tudor-Gabriel Mocioi



George Cristian Ardeleanu



Ștefan Ștefănescu

## Leaders



Dr. Delia Constanta  
Davidescu

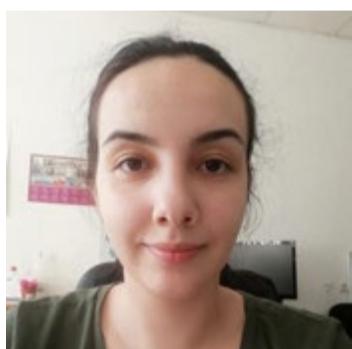


Dr. Adrian Dafinei

## Invigilators



Dr. Mitica Dragusin



Roberta Stoica



Tiberiu-Costin Trandafir



# Russia

## Students



Matvei Kniazev



Nikolay Kononenko



Denis Ismagilov



Artemii Novikov



Danila Samodelkin

## Leaders



Dr. Mikhail Osin



Dr. Artem Voronov

## Invigilators



Svetlana Mamchur



Elena Sokolova



Evgenia Lebedeva



Elena Bazanova



Olga Starostenko

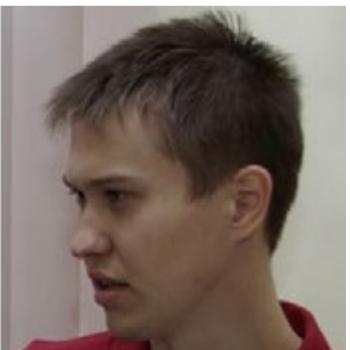
## Observers



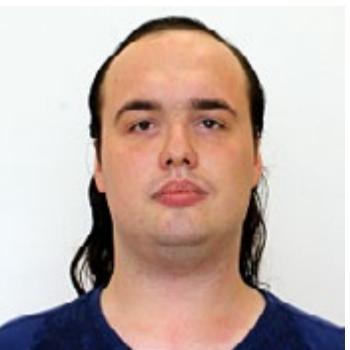
Dr. Vitaly Shevchenko



Dr. Yury Skakov



Fedor Tsybrov



Arsenii Pikalov



# Saudi Arabia

## Students



AHMED AL MUHANNA



ALQASEM SENEGALI



Hassan Al Lail



HUSSAIN ALSHAMMASI



Sadeq AlAbbad

## Leaders



Talal Alrashidi



Jaan Kaldা

## Invigilators



Hussin Aamri



Adel Al-Gahdeer

## Observers



Dr. Maien Binjonaid



Dr. Emad Raslan



# Serbia

## Students



Dušan Beguš



Petar Samardžić



Momčilo Tošić



Jovan Marković



Pavle Pakalović

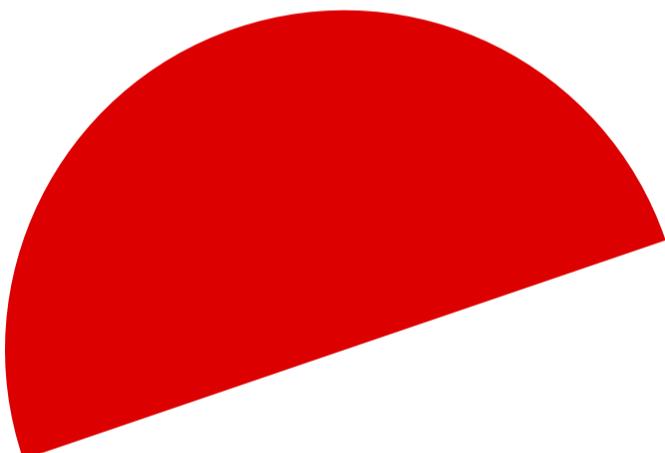
## Leaders



Prof. Vladimir Markovic



Prof. Milan Kovacevic



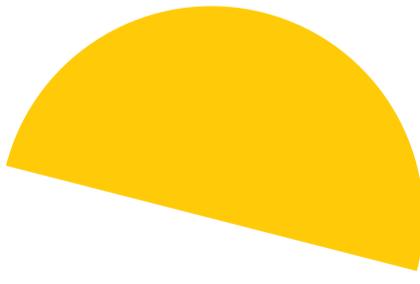
## Invigilators



Prof. Nenad Stevanovic



Zeljko Cimbaljevic





# Singapore

## Students



Lewin Marsh



Akshat Chaudhary



Hui Xiang Sim



Chien Hao Tan



Yunrui Wang

## Leaders



Dr. Hoi Nok Tsao

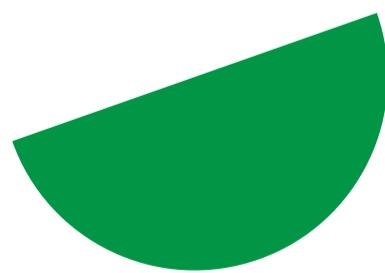
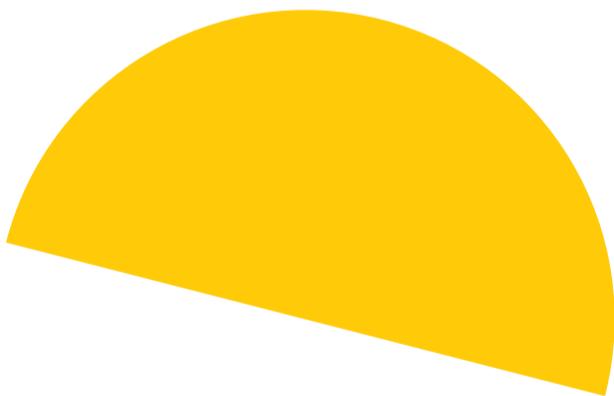


Dr. Da Yang Tan

## Invigilator



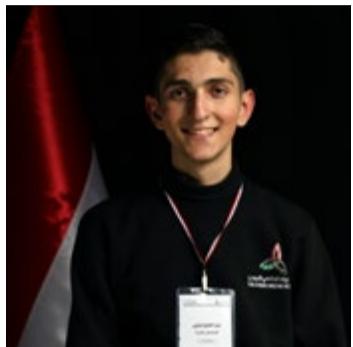
Geok Suan Tan





# Syria

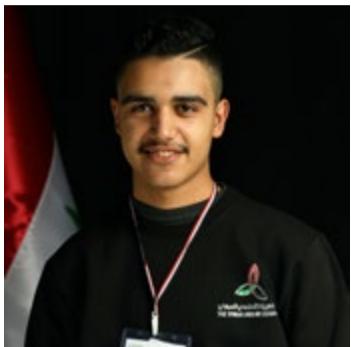
## Students



Abdalazeez Jerby



Hadi Salloum



Ammar Ali



M. Subhi Abo Rdan



Abdullah Alhasni

## Leaders



Dr. Hammoud Al Ourabi



Dr. Akil Salloum

## Invigilators



Lara Shabea



Elyas Farah



Khaled Kalalib Alashabi



Dima Al Shaikh Khalil

## Observers



Dr. Mazen Hassan



Dr. Mohamed Dib



Dr. Mustafa Eleoui



Ghadeer Shaabana



# Slovakia

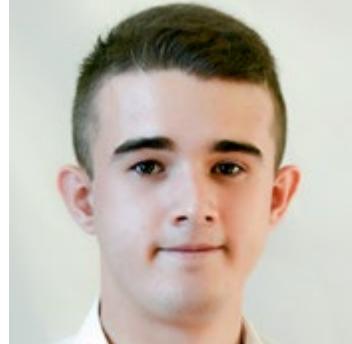
## Students



Jozef Csipes



Pavol Šimkovič



Štefan Slavkovský



Adam Džavoronok



Pavol Pivko

## Leaders



Prof. Ivo Čáp



Dr. Ľubomír Konrád



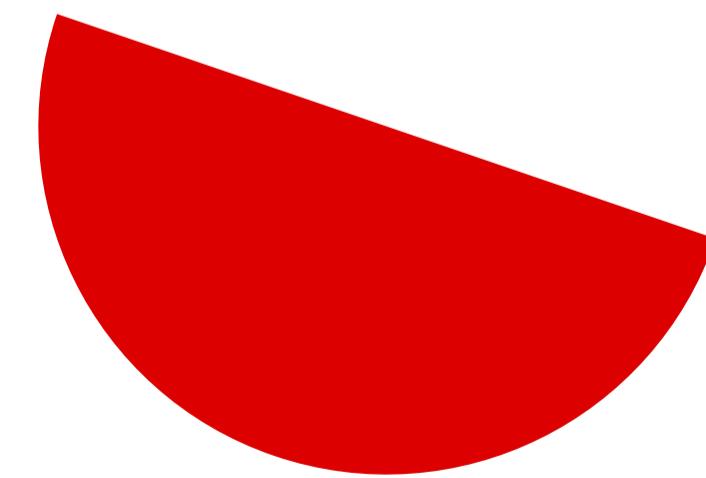
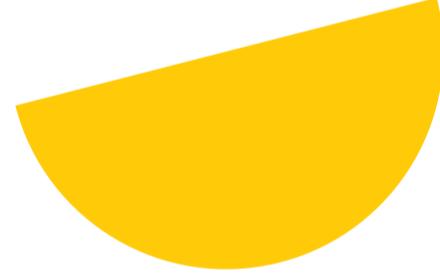
## Invigilators



Dr. Ľubomír Mucha



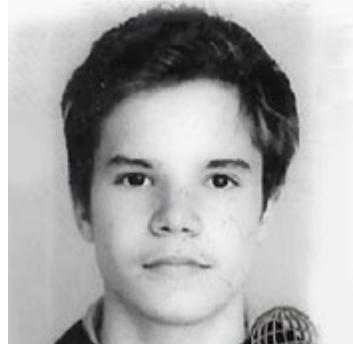
Tomáš Lučivjanský





# Slovenia

## Students



Nejc Funtek



Simon Bukovšek



Domen Lisjak



Lev Podbregar



Anže Krejan

## Leaders



Dr. Jurij Bajc

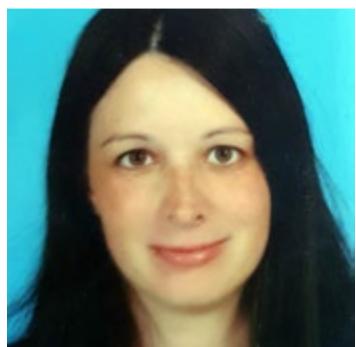


Dr. Barbara Rovšek

## Invigilators

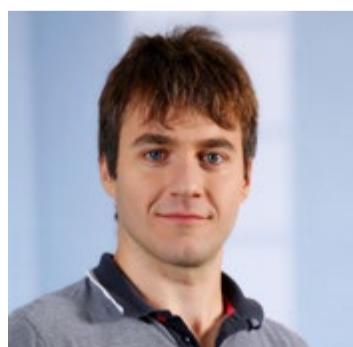


Ivana Polanc



Dr. Saša Zihrl

## Observer



Dr. Mitja Zidar



# South Africa

## Students



Talha Dada



Aarefah Badat



Nikisha Baboolal



Fayaad Harneker



Muhammad Mahdi Da Costa

## Leaders



Dr. Mervlyn Moodley

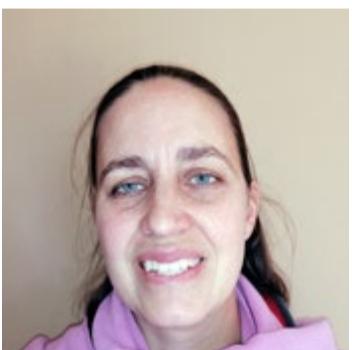


Shihal Munesher Sapry

## Invigilators



Ugur Hulusi Patli



Lauren Naomi Rens



Mahomed Iqbal Shaik



# Spain

## Students



Javier Sanchez-Bonilla  
Martinez



Pablo Moreno García



Brais Rodriguez



Manuel Bartolomé  
Melguizo García



Bernat Ibañez Martinez

## Leaders



Dr. Antonio Guirao Piñera



Dr. Juan José León García

## Invigilators



Cristina Balsells Llort



Alejandro Fernández  
Muñoz

## Students



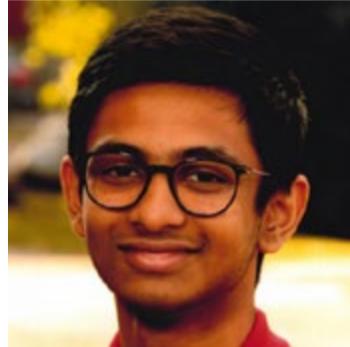
Adam Viktor Johansson



Aki Vilhelm Silander



Sven Ask Harald Hällström



Debdut Sengupta



Liam Alvin Antonsson

## Leaders



Dr. Max Bengt Kesselberg

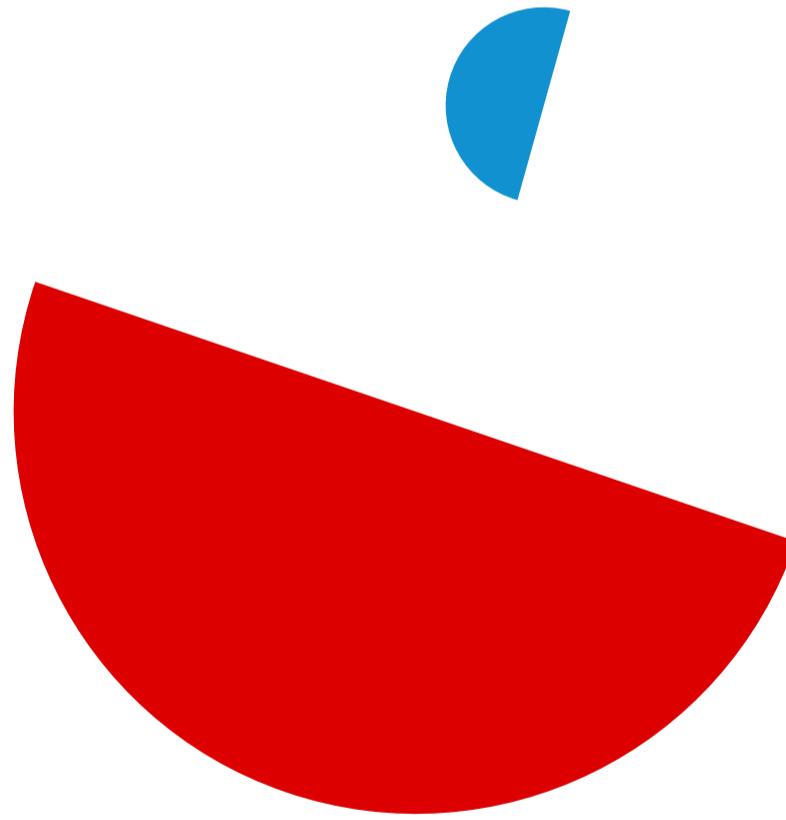


Dr. Bo Peter William  
Söderberg

## Invigilator



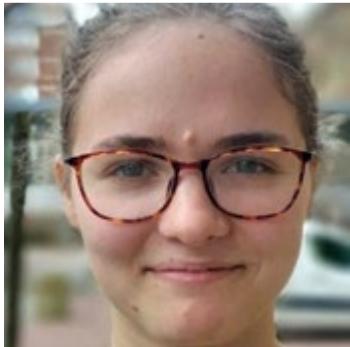
Lennart Küssner



## Observers



Oskar Johan Vallhagen



Julia Linnea Järlebark

# Switzerland

## Students



Kylian Gauteron



Valentin Kuno Hächler



Oliver Fabian Marti



Mathieu Zufferey



Raphael Zumbrunn

## Leaders



Dr. Lionel Antoine Philippoz

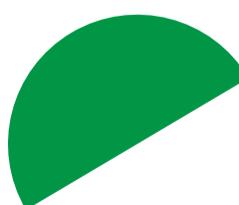
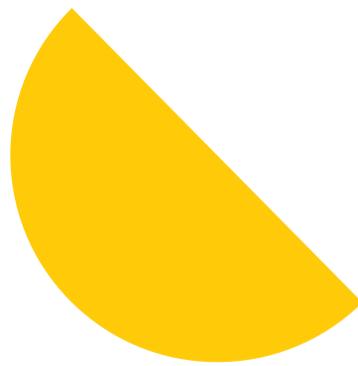
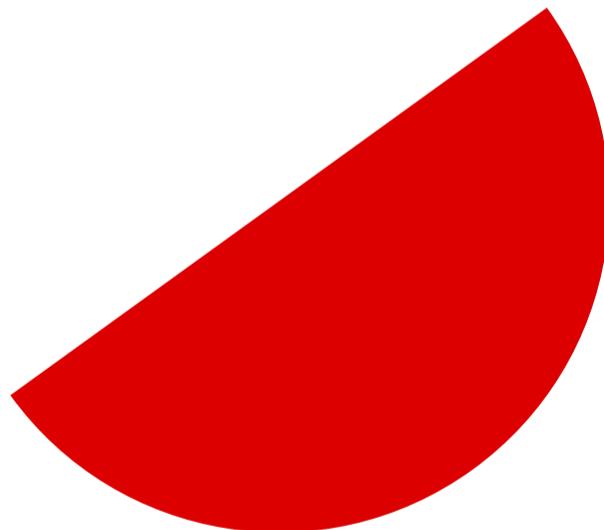


Nicolà Andreas  
Gantenbein

## Invigilator



Dr. Markus Siegfried Meier





# Taiwan

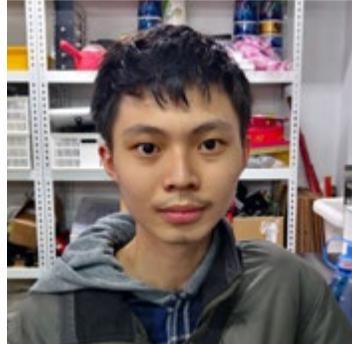
## Students



Lai Yu-Hong



Lee I-Kwan



Tu Kai-Hsiang



Tsai Jie-Da



Moore Zong-Si

## Leaders



Shang-Fang Tsai

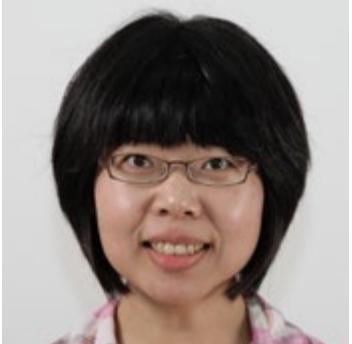


Chen Chuan-Ren

## Invigilators



Yuan-Hong Hsu



Prof. Pei-Hsun Jiang



I-Chin Hsieh

## Observers



Prof. Fu Tsu-Yi



Prof. Mou Chung-Yu



Prof. Juang Jenh-Yih



Prof. Chu Chon-Saar



Prof. Chia Chih-Ta



# Tajikistan

## Students



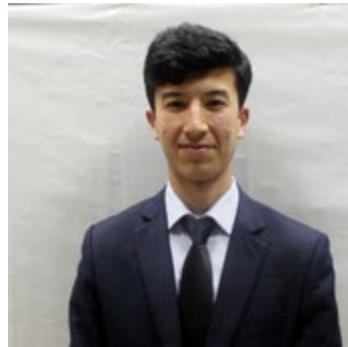
Mukhammadkhaja  
Kamoliddinzoda



Davlatmand Qalandarov



Abdurahmon  
Abduhamidov



Abdullodzhon Yusupov



Jahongir Akhlilloev

## Leaders



Erkinzhon Abdiev



Jamshed Rustam

## Invigilators



Botirjon Norboboев



Yusuf Rahimov





# Thailand

## Students



Nathakorn  
Chaidechapinant



Natthakan Saeng-Nil



Thanadis Charoenrujjin



Parthorn Ammawat



Warakorn  
Dachavararanupap

## Leaders



Dr. Pornthep  
Nisamaneephong



Dr. Wittaya  
Kanchanapusakit

## Invigilators



Charoensak Mueangkaew



Kitchaphol Tiewpuoza

## Observers



Dr. Tara Chalermongsak



Jaray Panmuang



Sujint Wangsuya

## Students



Bayram Alp Şahin



Alper Tezcan



Eser İlke Genç



Emir Akdağ



Yaman Bora Otuzbir

## Leaders



Dr. Hacı Ahmet Yıldırım



Salih Aksoy

## Invigilators



Öykü Sıla Güner



Mahmut Kamil Koçin

## Students



Volodymyr Kuzma



Daniil Zabilskyi



Makar Kuznetsov



Artem Saraiev



Anhelina Morhai

## Leaders



Prof. Borys Kreminskyi



Prof. Igor Anisimov



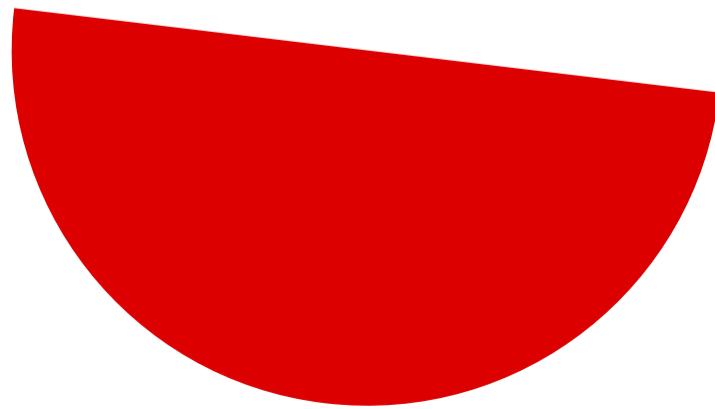
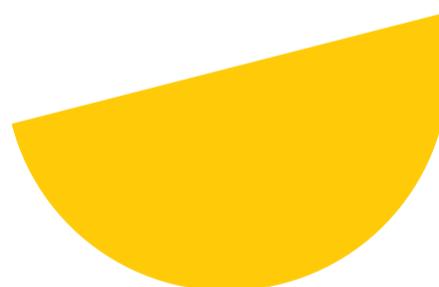
## Invigilators



Prof. Igor Dmytruk



Oleksii Ovsiannikov





# United Arab Emirates

## Students



Fatmah Khamis Mohamed  
Ali Alyammahi



Ghazlan Abdulla Ahmed  
Rashed Alhebsi



Om Girishkant Gupta



Sowmya Srinivasan



Hrishikesh Kalyanaraman

## Leaders



Prof. Bhawendra Kumar



Prof. Shabib Ahmad

## Invigilators



Dhanisha Palliparambil  
Yohannan



Justin Mathew



# United Kingdom

## Students



Mihir Manium



Frederick Hand



James Brownlie



Junhe Chen



Luke Edward Hayward

## Leaders



Dr. Antonin Machacek

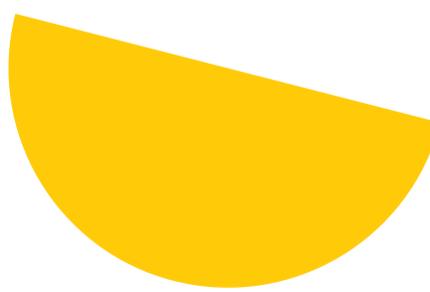
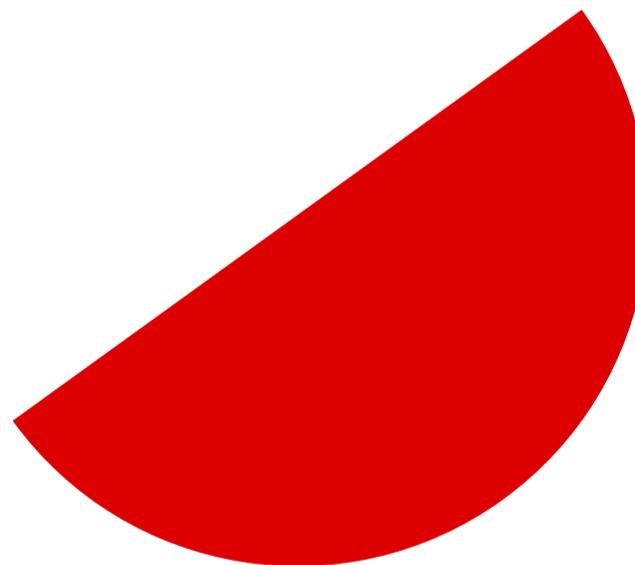


Dr. Anson Cheung

## Invigilator



Robin Hughes





# United States of America

## Students



Zhening Li



Leo Yao



Evan Erickson

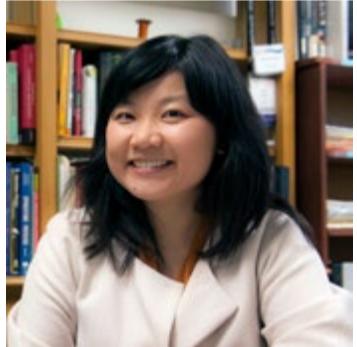


Eddie Zhe Chen



William Huang

## Leaders



Prof. JiaJia Dong



Michael Hofmann Winer

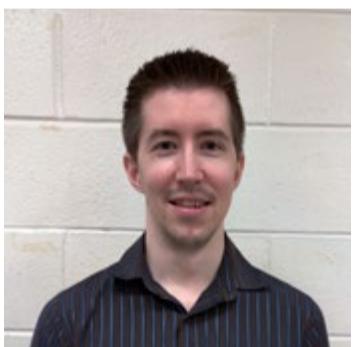
## Invigilators



Kevin Zhou



Laszlo Z. Nagy



Walter Zubrzycki



Rebekah Marie Johnson



# Uzbekistan

## Students



Mahbuba Shayxnazarova



Rail Khashaev



Madinabonu Khasanjonova



Umidjon Muhammedov



Ruslan Alikulov

## Leaders



Davron Tukhtaev



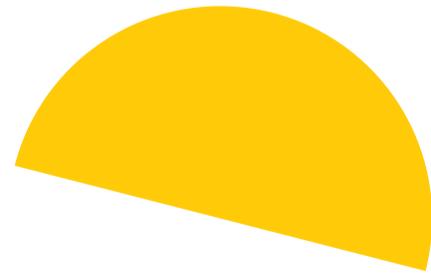
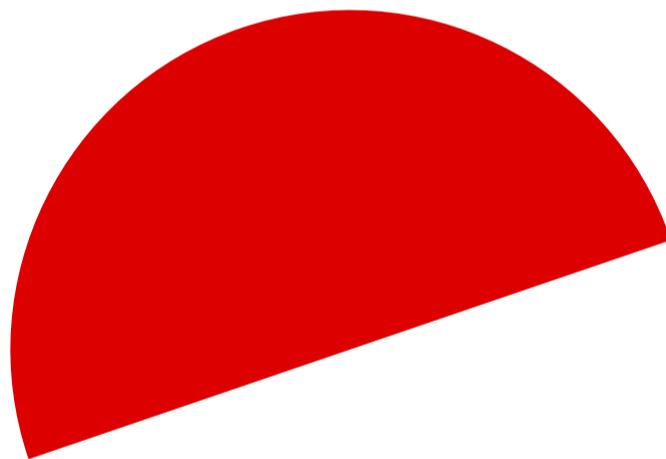
Doniyor Babajanov



## Invigilator



Aziz Khasanov





# Vietnam

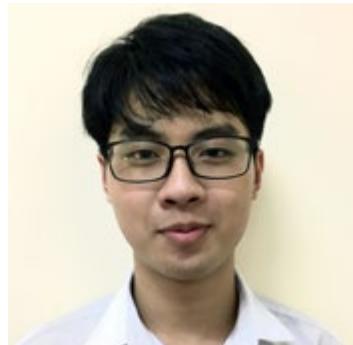
## Students



Manh Quan Nguyen



Quang Vinh Tran



Dao Cong Minh Trang



Trong Thuan Nguyen



Thanh Tan Bui

## Leaders



Prof. Huy Hoang Luc



Prof. The Khoi Nguyen

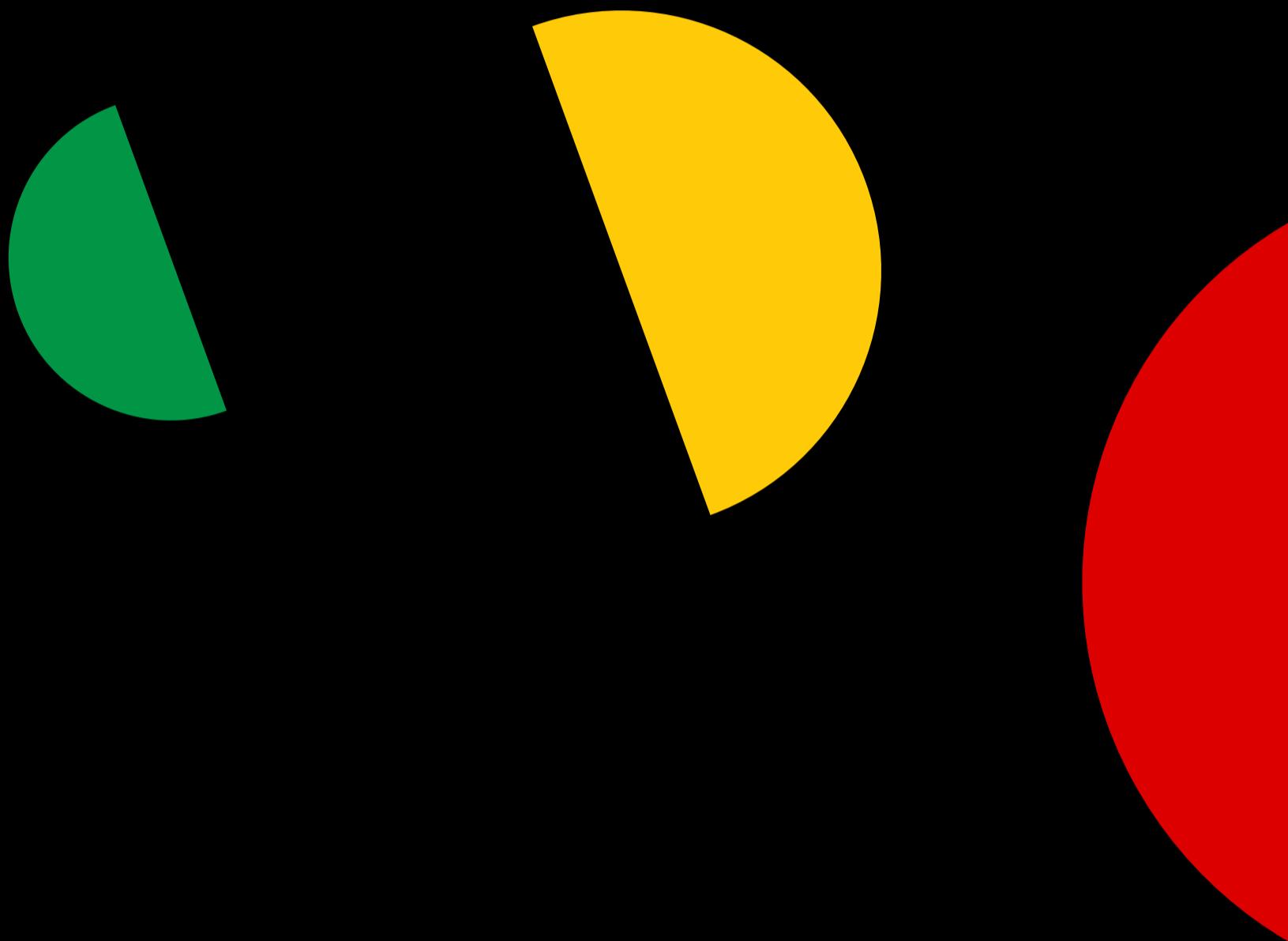
## Invigilators



Prof. Trinh Mai Van



Prof. Vuong Dang Duc



# Organizers

# Organizers

## Steering committee



**Dr. Ramūnas Skaudžius**  
Chairman of IPhO 2021 Steering committee



**Jonas Mickus**



**Laima Rutkauskienė**



**Algirdas Sakevičius**



**Rigonda Skorulskienė**



**Prof. Juozas Šulskus**



**Dr. Paulius Lukas  
Tamošiūnas**

## Academic committee



**Prof. Edmundas Kuokštis**  
Chairman of IPhO 2021 Academic committee



**Prof. Audrius Alkauskas**



**Prof. Egidijus Anisimovas**



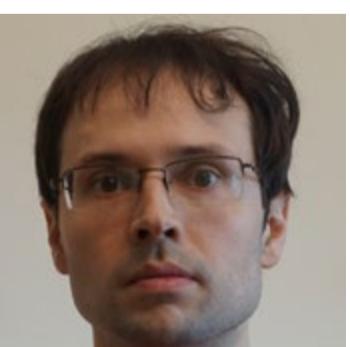
**Justinas Baužys**



**Dr. Jevgenij Chmeliov**



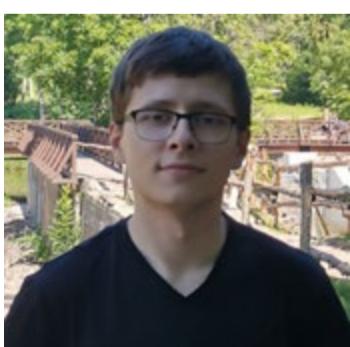
**Dr. Nail Garejev**



**Dr. Emīlis Pileckis**



**Dr. Steponas Raišys**



**Elvinas Ribinskas**



**Dr. Mindaugas Viliūnas**

# Organizers

## Academic committee



Dr. Pranciškus Vitta



Dr. Kastytis Zubovas

## Organising committee



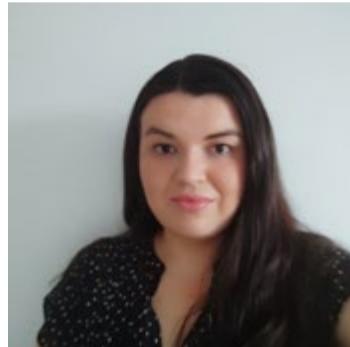
Dr. Gediminas Beresnevičius  
Chairman of IPhO 2021 Organising  
committee



Jurgita Brazauskaitė-  
Inciéné



Justina Čiplė



Miglė Čiurinskaitė



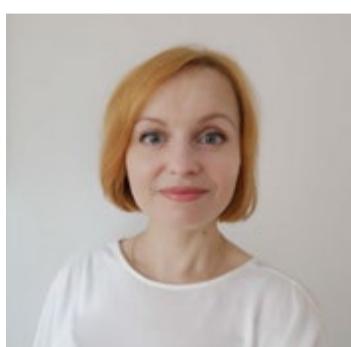
Žyginta Einorytė



Liliana Feiginaitė



Rugilė Jurevičiūtė



Viktorija Kalaimaitė



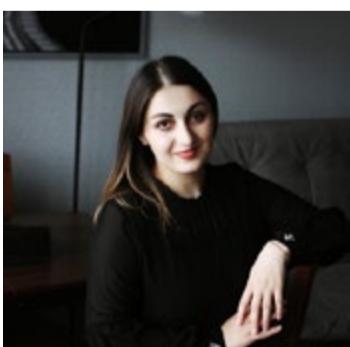
Vilma Maniušienė



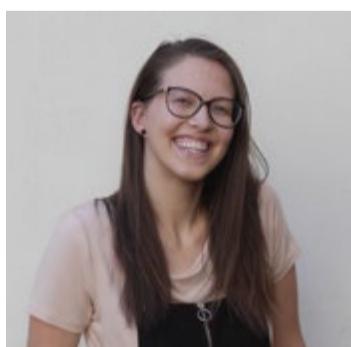
Liudas Mikalkevičius



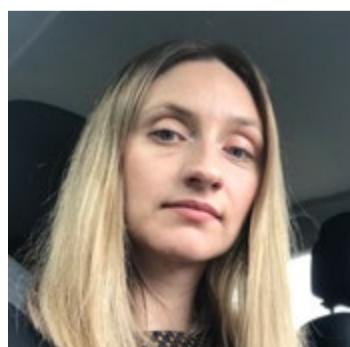
Arūnas Plikšnys



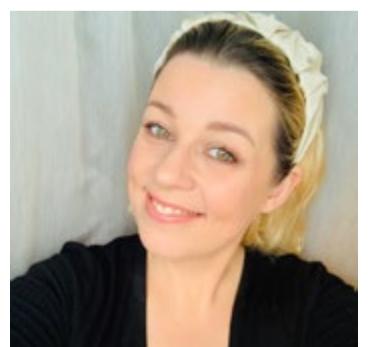
Teklė Songulija-Tkačenko



Milda Stachnevičiūtė



Jurgita Stulginskienė



Dina Voronina

# Organizers

## Organising committee

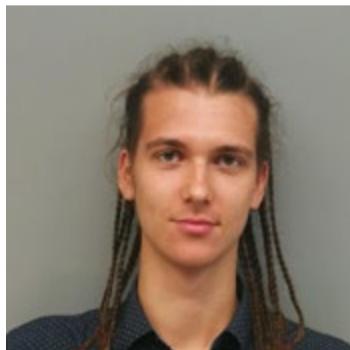


Mindaugas Žemaitis

## Volunteers



Aušrinė Aglinskaitė



Augustinas Bačkis



Jonas Barkauskas



Matas Bukelskis



Marija Duchovskytė



Sofija Gabrilavičiūtė



Ieva Janušaitė



Andrius Jasinevičius



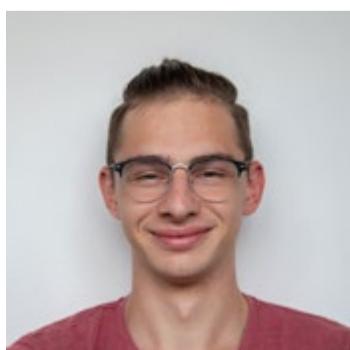
Ernestas Jegorovas-Armstrong



Ignas Juodžbalis



Artiom Kalčenko



Artūr Karagezian



Giedrė Karzaityė



Konstanty Keda



Tomas Kvietkauskas

# Organizers

## Volunteers



Ignas Ledzinskas



Asira Lele



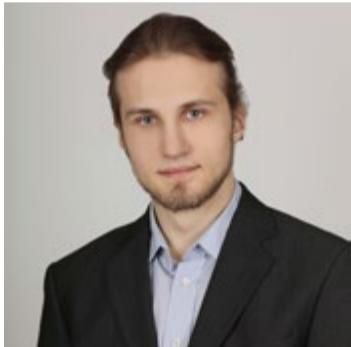
Ugnė Liubertaitė



Greta Mačiūtytė



Eriks John Magee



Vilius Malūnavičius



Ugnė Orinaitė



Meilė Petrauskaitė



Vaiva Pilkauskaitė



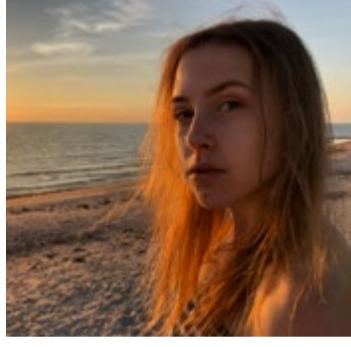
Eglė Pociūtė



Paulius Poviliauskas



Bartas Šaltenis



Miglė Šarpilo



Brigita Serebriakova



Dr. Martyna Šimkutė



Raimondas Šiškevičius



Gerda Skinderytė



Andrey Staniukynas



Goda Stirbytė



Uršulė Tarvydytė

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M.D. Vilmantė Vaitekėnaitė



Kotryna Vaitkevičiūtė



Gabija Vasiliauskaitė



Beatričė Zajančkauskaitė



Emilia Zakaitė

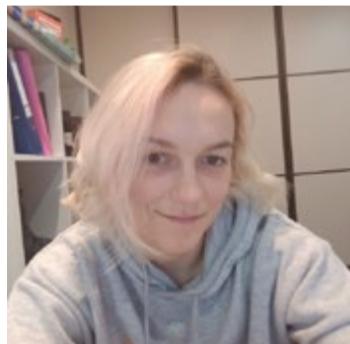


Dovilė Zinkutė

## Markers



Dr. Brigita Abakevičienė



Sonata Adomavičiūtė-  
Grabusové



Dr. Kęstutis Aidas



Marijus Ambrozas



Maksimas Anbinderis



Dr. Justina Anulytė



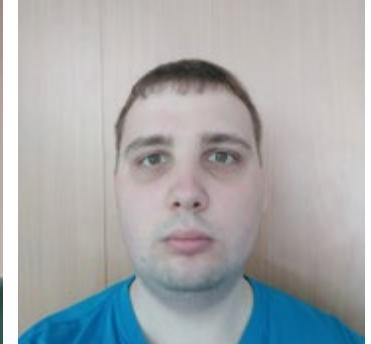
Benas Beklešovas



Dr. Kristina Bočkutė



Mantas Boronilščikovas



Vytautas Bubilaitis

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Deividas Buinovskis



Domantas Burba



Dr. Aurimas Čerškus



Vladislavas Čižas



Ignas Gaižiūnas



Dr. Mindaugas Gedvilas



Dr. Kristijonas Genevičius



Robertas Grigutis



Dr. Janina Grineviciute



Edvinas Gvozdiovės



Dr. Aleksandras Iljinės



Mantas Jakučionis



Julius Jankauskas



Dr. Justė Jankevičienė



Dr. Domas Jokubaukis



Dr. Andrius Juodagalvis



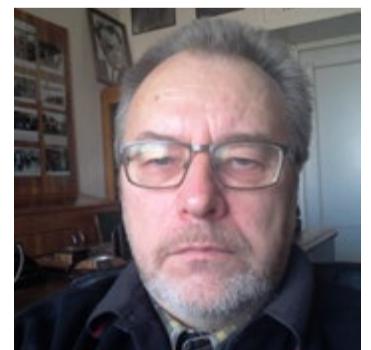
Dr. Arvydas Kanapickas



Jonas Karosas



Emilio Kaziukėnės



Dr. Romualdas Kisielius

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Tomas Klinavičius



Ramūnas Logminas



Ignas Lukošiūnas



Mykolas Mačiulis



Paulius Mackonis



Dr. Robertas Maldžius



Karolina Maleckaitė



Dr. Tadas Malinauskas



Dr. Liveta Miliauskaitė



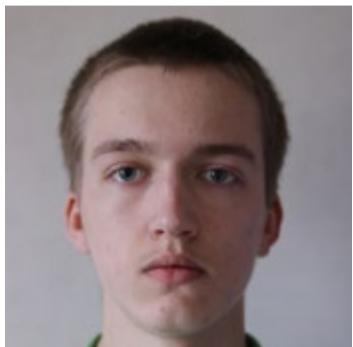
Agnė Minderytė



Tomas Montvydas



Tautgirdas Narmontas



Ričardas Navickas



Nerijus Nekrašas



Dr. Sergejus Orlovas



Dr. Erika Pakštienė



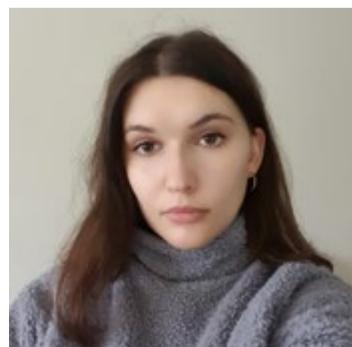
Dr. Edita Palaimienė



Daniil Pashnev



Jokūbas Pelanskis



Gabija Petrauskaitė

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Augustinas Petrušėnas



Rasa Platakytė



Dr. Sandra Pralgauskaitė



Kornelijus Pūkas



Dr. Andrius Puzas



Mantas Račiūnas



Edvinas Radiunas



Paulius Rindzevičius



Dr. Aleksėj Rodin



Kristijonas Samuolis



Dr. Raimundas Sereika



Dr. Povilas Šimonis



Einaras Sipavičius



Arnoldas Solovjovas



Dr. Mantas Sriubas



Dr. Evaldas Stankevičius



Dr. Vytautas Stankus



Dominyka Stonytė



Dr. Jelena Tamuliene



Dr. Stepas Toliautė

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Dr. Romualdas Trusovas



Kamilė Tulaitė



Gilbertas Umbražūnas



Dr. Vidita Urbanienė



Agnė Vailionytė



Gitana Valeckytė



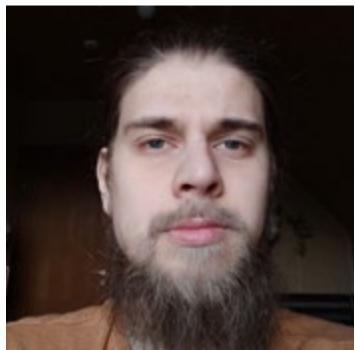
Dr. Martynas Velička



Oskaras Venckus



Dr. Julius Vengelis



Aurimas Vitkus



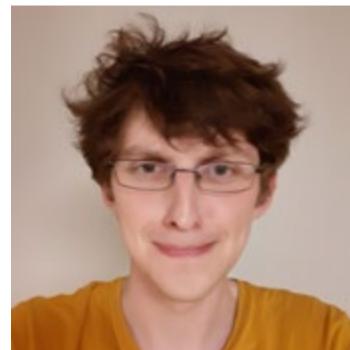
Vytautas Vosylius



Dr. Rokas Žalnėravičius



Dr. Gabija Žemaitytė



Giedrius Žlabys

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