

2026 - 8th Balkan Physics Olympiad, İstanbul–Türkiye



BPO 2026



8th Balkan Physics Olympiad

BPO 2026

27-30 June 2026

İstanbul Türkiye

2026 - 8th Balkan Physics Olympiad, İstanbul–Türkiye

2026- BPO8

Rules and Prizes

Rules

- The Balkan Physics Olympiad (BPO) is organized once every year, either at the end of the school year (June-July) or at the beginning of the next school year (September-October).
- The exact date is proposed by the organizing country, which must take into account the calendar of other international competitions.
- The BPO can only be held in one of the BPU member countries and only pupils from the member countries can officially participate in the contest. Participation can also be online, but an on-site participation is highly encouraged.
- The member countries of BPU are: Albania, Bulgaria, Cyprus, North Macedonia, Montenegro, Greece, Republic of Moldova, Romania, Serbia and Turkey. At the end of each competition, the host country for the next edition is proposed based on the principle of organization by rotation by the member countries.
- In order to ensure optimal conditions for the event, the host country will propose the venue, as well as a possible participation fee that strictly have to cover the costs of the organization.
- The BPU Executive Committee will approve the fee and, depending on the available financial resources, will be able to apply a policy of total or partial coverage of participation fees for member countries that will request it.
- The host country may also invite other pupils as unofficial participants. If the respective students represent a certain guest country, it must be accepted by all BPU member countries.
- Pupils who are participating in the BPO 2026 must be middle school or high school pupils, born after 1-1-2009, or with maximum 3 months before this date, if they are part of the same year of study as the students accepted according to the above-mentioned age limit.
- Each country can propose up to four problems and they should be e-mailed to the Chairman of the Scientific Committee. The proposed problems should include their solutions.
- The official language of the BPO is English. The team leaders (or additional translators) of each country will be aiding with the translation of the questions in the official language of the country. Participant pupils will solve the problems in the official language of their country.
- The team will be accompanied by 2-3 professors appointed as leader, co-leader and member of the Scientific Committee (SC).
- The competition will consist of a single test with 4 problems.
- The official language is English, but the problems will be translated by one of the accompanying teachers and students can write the test in the official language of their country. Physical presence (on-site) is mandatory for those who want to participate in the competition.

2026 - 8th Balkan Physics Olympiad, İstanbul–Türkiye

Prizes

The following prizes (medals) will be awarded:

- ❖ Gold medals (best 10% of the participants from the member states)
- ❖ Silver medals (next 15% of the participants from the member states)
- ❖ Bronze medals (next 25 % of the participants from the member states)
- ❖ Honorable Mention (the next 17 % of the participants from the member states)

The participants from the guest countries will receive supplementary prizes (medals), **according to the total number of points they will obtain and the cut-offs established for the medals, taking into account only the students from the member countries.**

A **certificate of Special Prize** shall also be awarded to each pupil who has obtained full marks on at least one problem.

A Certificate of Participation shall be given to all contestants.

Note: The medals, certificates and other prizes will be announced at the official Award Ceremony. Effectively, they will be given by the Organizing Committee to the winners who are present at the ceremony or will be sent to the team leaders from each country by mail.

2026 - 8th Balkan Physics Olympiad, İstanbul–Türkiye

2026 -8th BALKAN PHYSICS OLYMPIAD

FIRST ANNOUNCEMENT

The Turkish Physical Society (TPS) will be host and organize the 8th Balkan Physics Olympiad – 2026 BPO8 under the auspices of the Balkan Physical Union (BPU). The competition will be held under the auspices of the Balkan Physics Union (BPU) and is supported by the European Physical Society (EPS), Turkish Ministry of Education İstanbul Atatürk Science High School, Maltepe University, Nişantası University and Sani Şener Foundation.

The BPO8–2026 competition will bring together students from ten BPU member countries—Albania, Bulgaria, Cyprus, North Macedonia, Montenegro, Greece, the Republic of Moldova, Romania, Serbia, and Türkiye—as well as students from “Guest Countries” approved by the BPU Executive Board.

According to the Competition Regulations, each country can be represented by a team of 4 students born after January 1st, 2009, or with maximum 3 months before this date, if they are part of the same year of study as the students accepted according to the above-mentioned age limit.

The teams will be accompanied by 2-3 mentors appointed as leader, co-leader and member of the Scientific Committee (SC) from 10 Balkan Countries, Guest Countries may be represented by observers.

The competition will consist of a single test with 4 problems. The official language is English, but the problems will be translated by one of the accompanying teachers and students can write the test in the official language of their country. Physical presence (on-site) is mandatory for those who want to participate in the competition.

A participation fee of 200 EUR per person will be charged for students, team leaders, and co-leaders from BPU member countries and the guest countries (Scientific Committee members are exempt).

For participants from Guest Countries as observers, the participation fee will be 600 EUR per person.

These fees fully cover accommodation and meals during the event. Travel expenses are the responsibility of the participating countries.

All information regarding the event—including rules, curriculum, and important dates—can be found on the Balkan Physical Union website: <https://balkanphysicalunion.info>

We kindly ask the designated representative of each country to confirm the number of participants (students, team leaders, Scientific Committee members, and observers) by 15 April 2026 via email to bpo8.tfd@gmail.com, and copied the message to the presents of BPU Prof. Dr. Sofoklis Sotiriou (sotiriou@ea.gr).

2026 - 8th Balkan Physics Olympiad, İstanbul–Türkiye

The deadline for the submission of problems by BPU member countries is 15 May 2026. All problems should be submitted to the Chair of the Scientific Committee, Prof. Dr. Ertan Güdekli (gudekli@istanbul.edu.tr). Submitted problems should be clear, original, and appropriate for the level of a Balkan Physics Olympiad. Each problem must include: a complete and detailed solution, a clear statement in English, any necessary figures or diagrams, and where appropriate, a brief marking scheme. Problems should preferably be submitted in editable electronic format.

The deadline for submitting the registration form, including full information about participants—full name, gender, role, etc., for student, team leader, Scientific Committee member, or observer—along with the participation fees, is 15 May 2026.

We look forward to seeing you in İstanbul (Türkiye) .

The 2026 BPO8 Local Organizing Committee,

Chairman:

Prof.Dr. Şener Oktik

A vice-president of BPU

Members :

Prof.Dr. Baki Akkuş

Dr. Metin Toprak

Nil Memişoğlu

Melisa Ozkan

The 2026 BPO8 Local Scientific Committee,

Chairman:

Prof.Dr. Ertan Güdekli

Members:

Prof.Dr. Şener Oktik

Prof.Dr. Baki Akkuş

Prof.Dr. Ömer Yavas

2026 - 8th Balkan Physics Olympiad, İstanbul–Türkiye

2026-BPO8 -Information

BPO8, 27 June -30June 2026 Programme

Time / Day	27 June Saturday	28 June Sunday	29 June Monday	30 June Tuesday
08:00–09:00	Arrival & Registration	Breakfast	Breakfast	Breakfast
09:00–10:00				
10:00–11:00		Opening Ceremony (Marmara University İbrahim Üzümcü Conference Hall)	Competition (09:00–13:00)	Closing Ceremony (Marmara University İbrahim Üzümcü Conference Hall)
11:00–12:00				
12:00–13:00		Lunch	Lunch	
13:00–14:00		Problem Discussion (Scientific Committee)	Lunch	Departures
14:00–15:00			Scientific Committee Marking & Free Time for Students, Leaders and Guests	
15:00–16:00				
16:00–17:00				
17:00–18:00			Transfer from High School to Boat & Bosphorus Dinner Cruise	
18:00–19:00	Dinner	Dinner		
19:00–20:00	—	—		
20:00–21:00	—	—		
21:00–22:00	—	—		

Social Programme: Boat Bosphorus Dinner Cruise

Transfer from İstanbul Atatürk Science High School to the boat on June 28, 2026 at 17:30

Fees

A fee for the team representing the Balkan and the “Invited Guest Countries” (students, a leader) is 200 Euro per participant, and 600 Euro for observers from the Invited Guest Countries to fully cover the costs related to accommodation and meals during the 8th BPO.

Visa

Citizens of the EU and neighbouring countries can stay in Turkey without a visa for up to 30 days with a valid personal document (passport). We strongly advise all participating countries to simultaneously consult the following website page for information on the visa regime

Accommodation

All students, leaders, will be accommodated in the İstanbul Atatürk Fen Lisesi

Address: Eğitim, Sarayönü Cd. No.1, 34722 Kadıköy/İstanbul/Türkiye
(<https://iafl.meb.k12.tr/>)

2026 - 8th Balkan Physics Olympiad, İstanbul–Türkiye

The competition Venue:

The İstanbul Atatürk Fen Lisesi ,
Adress Eğitim, Sarayönü Cd. No.1, 34722 Kadıköy/İstanbul/Türkiye
(<https://iafl.meb.k12.tr/>)

Transport

All participating countries are expected to independently organize their transport to the 8th BPO venue. There are two airport in İstanbul Sabiha Gökçen Airport (Anatolian side) İstanbul Airport (European side). The Sabiha Gökçen Airport (Anatolian side) is more appropriate to commute to and from The 8th BPO venue by public transport.

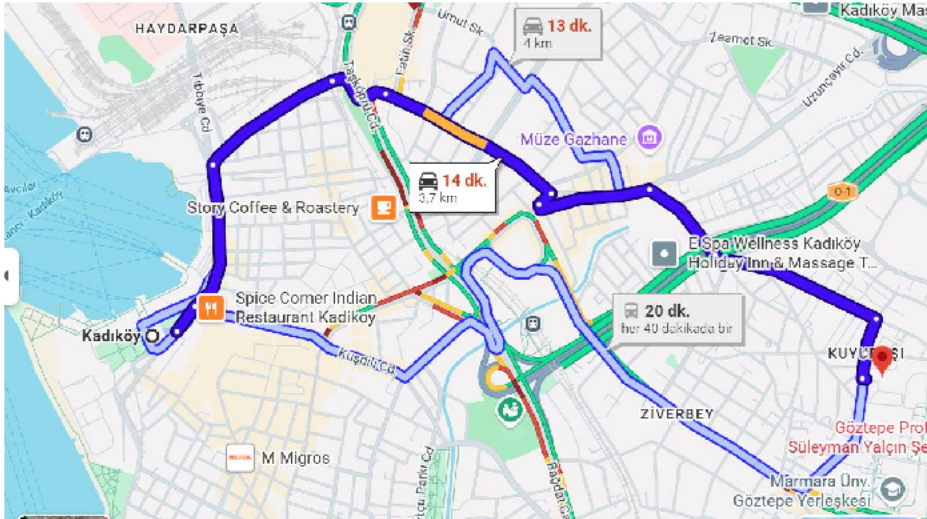
Step 1: Take the Metro from the Airport

From the airport, take the M4 Kadıköy–Sabiha Gökçen Metro Line, Direction: Kadıköy
(Stay on the metro until the **last stop (Kadıköy)**, Travel time: about **50–60 minutes**)

Step 2: Reach the İstanbul Atatürk Fen Lisesi School

From Kadıköy, you have two options:

1. Walk (15–25 minutes, depending on pace),
2. Take a short bus or minibus (dolmuş) ride



2026 - 8th Balkan Physics Olympiad, İstanbul–Türkiye

Currency

The official currency is the Turkish Lira (TL)

Electricity

Türkiye operates on 220V (50Hz) supply voltage and uses the standard European Type C plug, which has two round prongs.

BPO8 2026 -Instructions for payment

Incoming Payment Instruction

- A fee of 200 Euro/participant will be charged to students, leaders and co-leaders (not from SC members).
- A fee of 600 Euro for participant observers from invited Guest Countries.
- The payment should be made before 15th May 2026 by bank transfer to the account specified **below**.
- At request, an invoice for the participation fee will be provided by organizers.

Payment details:

Payment instructions to the Turkish Physical Society

Türkiye İş Bankası

Laleli Branch

Account Name. Türk Fizik Derneği İktisadi

IBAN :TR03 0006 4000 0021 0840 9330 11

2026- BPO8-Syllabus

Mechanics

- ✓ **Measurement**
 - Fundamental quantities and derived quantities
 - Conversion of units
 - Significant digits of numbers
- ✓ **Motion in One Dimension**
 - Position, velocity, and acceleration
 - Motion diagrams
- ✓ **Motion in Two Dimensions**
 - Position, displacement, velocity, and acceleration
- ✓ **Projectile Motion**
 - The trajectory of a projectile as combination of horizontal motion with constant velocity and vertical motion with constant acceleration
 - A body projected horizontally
 - Height and range of a projectile
- ✓ **The Laws of Motion**
 - The concept of force
 - Newton's first law
 - Newton's second law
 - Newton's third law
 - Forces of friction
 - Free-body diagram
- ✓ **Energy of a System**
 - Work done by a constant force
 - Kinetic energy
 - Kinetic energy and the work–kinetic energy theorem
 - Potential energy of a system
 - Conservative and non-conservative forces
 - Relationship between conservative forces and potential energy
 - Mechanical energy of a system
 - Changes in mechanical energy for conservative and nonconservative forces
 - Mechanical energy of a block–spring system
- ✓ **Gravitation**
 - Newton's Law of Gravitation
 - Weight
 - Gravitational Potential Energy
 - The Motion of Satellites
 - Kepler's Laws and the Motion of Planets

Electromagnetism

- ✓ **Electrostatics**
 - Electric Charge
 - Coulomb's Law
 - Electric Field, Electric Forces, Electric lines
 - Electric Potential Energy
 - Electric Potential, Equipotential Surfaces

2026 - 8th Balkan Physics Olympiad, İstanbul–Türkiye

Capacitors and Capacitance
Capacitors in Series and Parallel
Energy Storage in Capacitors and Electric-Field Energy
Conductors and Dielectrics

✓ **Current and Resistance**

Electric current
Resistance
Ohm's law
Electromotive force
Resistors in series and parallel
Equivalent resistance in simple circuits
Electric power