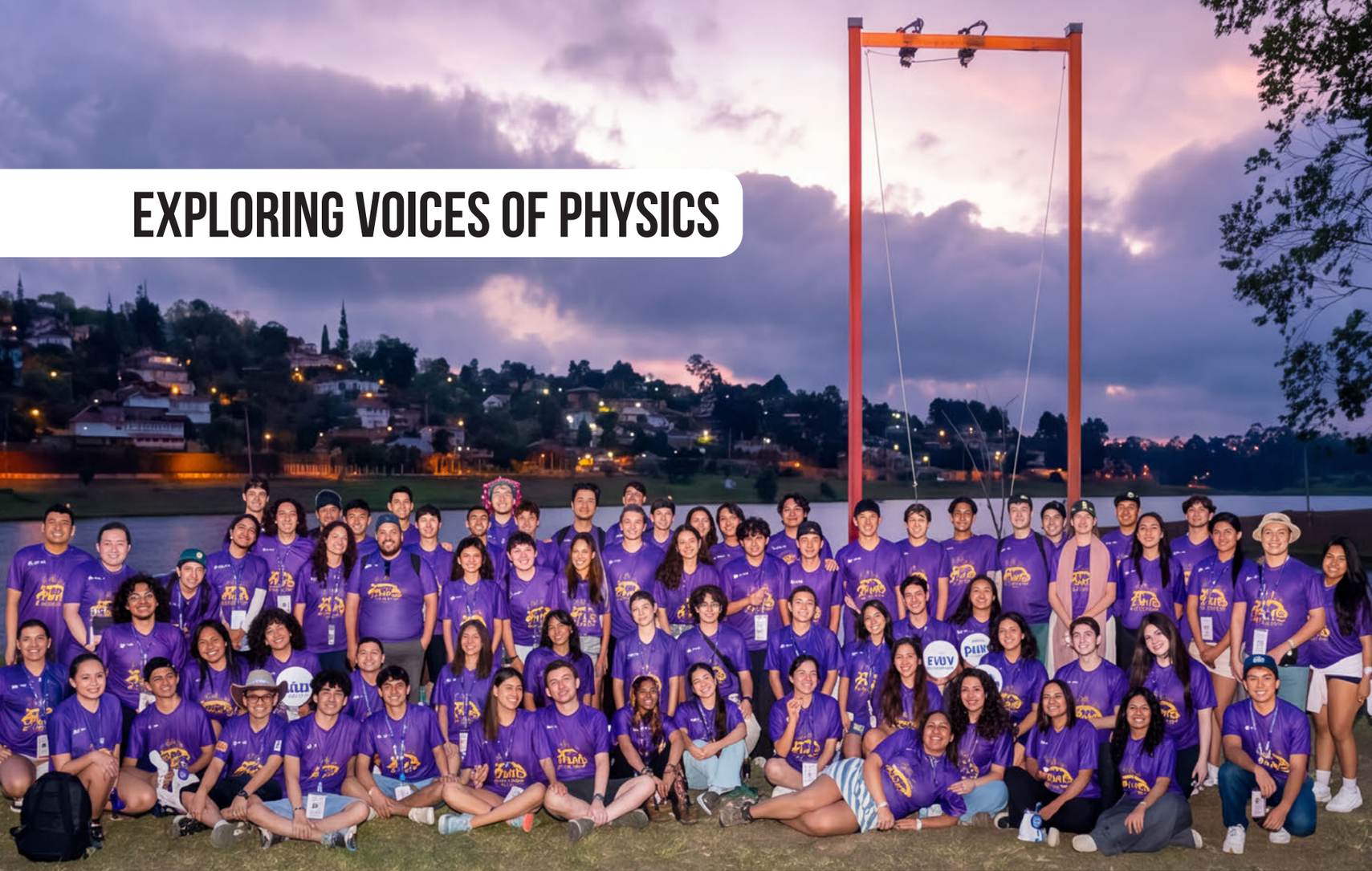
Nº 7
Saturday, July 11

56th PhO
BUCARAMANGA · COLOMBIA
2026

PHYSICS IN ACTION

EXPLORING VOICES OF PHYSICS



Host City: Bucaramanga, Santander, Colombia.

SPEAKERS

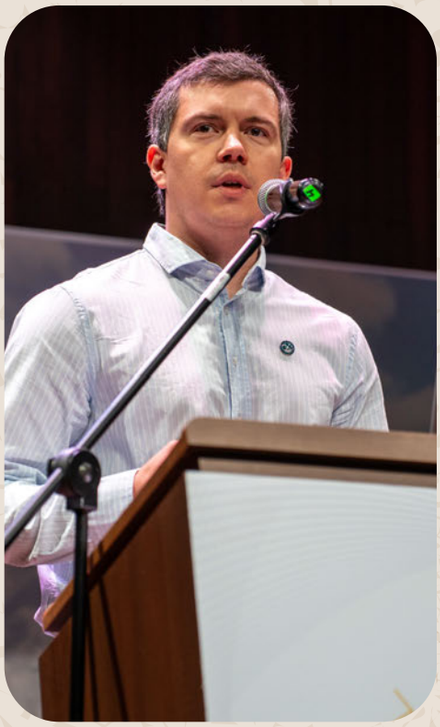
After several days of exams, Neomundo took on a different atmosphere. The 2026 International Physics Olympiad gave way to a space dedicated to the ideas that continue to drive the advancement of physics.

The morning programme explored very different scales of the universe. It began with particle physics and the search for answers about the fundamental structure of matter. From there, the conversation shifted to living systems, where quantum effects can help explain how energy moves through nature. Later, the focus broadened to cosmic rays: particles of extraordinary energy that reach Earth from some of the most extreme environments in the universe.

Marta Losada Falk, Alexandra Olaya-Castro, and Nicolás Leal guided participants through these fields, not as isolated topics, but as examples of how modern physics transcends disciplines, technologies, and borders. The talks were followed by Q&A sessions, allowing students to go beyond simply listening and engage directly with the ideas presented on stage.

The morning concluded with a session led by Squarepoint, which offered insights into how scientific thinking, mathematics, and technology can connect to professional life beyond academic research.

For students, this day enriches their experience at the 2026 IPhO, allowing them to learn beyond the exams. The lectures offer time to listen without the pressure of the clock, ask questions without worrying about their final score, and reflect on where their own interest in physics might take them. Today, the challenge is to leave Neomundo with a new question worth exploring.



EVENT SCHEDULE

DAY - 7

JULY 11TH: CLOSING CEREMONY

STUDENTS

07:00 - 09:00: Breakfast
09:00 - 13:30: Free Time
13:30 - 15:00: Lunch
15:00 - 16:00: Transfer to Neomundo
16:00 - 19:00: Closing Ceremony
19:00 - 23:00: Farewell Banquet
23:00 - 00:00: Transfer to assigned hotels

LEADERS

07:00 - 09:00: Breakfast
09:00 - 13:30: Free Time
13:30 - 15:00: Lunch
15:00 - 16:00: Transfer to Neomundo
16:00 - 19:00: Closing Ceremony
19:00 - 23:00: Farewell Banquet

OBSERVERS

07:00 - 09:00: Breakfast
09:00 - 13:30: Transfer to Neomundo
13:30 - 15:00: Lunch
15:00 - 16:00: Afternoon activities
16:00 - 19:00: Dinner hosted by Jane Street
19:00 - 23:00: Game night hosted by Jane Street
23:00 - 23:30: Transfer to assigned hotels

ASTEROMORPH

Asteromorph is an AI for Science lab based in Seoul, founded in 2025 to build scientific superintelligence. We are a team of engineers and scientists dedicated to driving a paradigm shift in how we understand and harness the world.

Our aim is to build an AI-native knowledge factory where AI systems generate hypotheses for unresolved problems across biology, chemistry, physics, and engineering. These hypotheses can then be reviewed and tested with research groups to turn promising scientific concepts into real-world discoveries. Rigorous physical reasoning sits at the core of this vision.

Asteromorph is proud to support the 56th International Physics Olympiad (IPhO 2026) as a Gold Sponsor. IPhO brings together secondary school students from around the world to tackle challenging problems in theoretical and experimental physics. Scientific discovery is rooted in rigorous reasoning, clear thinking, and the discipline to pursue a question wherever it leads. We hope the students taking part come away from this year's competition with their own moments of insight and discovery.

DID YOU KNOW...?

July 11, 1724 – Birth of Jean-Baptiste le Rond d'Alembert

On July 11, 1724, French mathematician and physicist Jean-Baptiste le Rond d'Alembert was born. He is best known for developing **D'Alembert's Principle,** one of the fundamental concepts of classical mechanics.

His principle transforms problems involving motion into problems of equilibrium by introducing inertial forces. This approach greatly simplified the analysis of mechanical systems and became a cornerstone of engineering, structural mechanics, robotics, and aerospace design.

D'Alembert also made significant contributions to fluid dynamics, differential equations, and astronomy, helping to establish the mathematical foundations of modern physics. Nearly three centuries later, his ideas continue to be taught and applied in physics and engineering classrooms around the world.

PHOTO GALLERY

The heart of IPho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