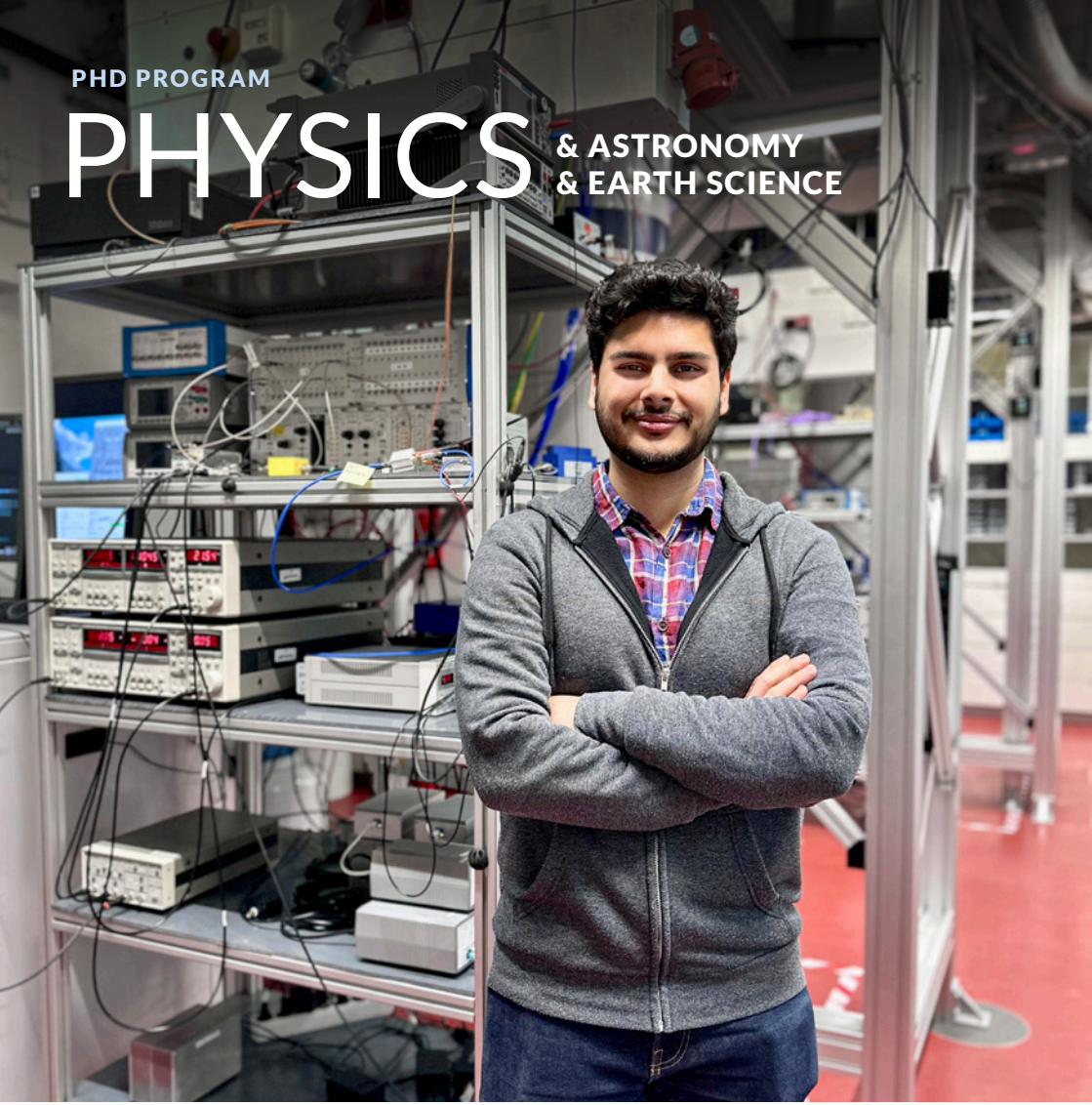
PHD PROGRAM

PHYSICS & ASTRONOMY & EARTH SCIENCE



- Fully funded
- English-speaking
- Interdisciplinary
- State of the art facilities
- Apply with Bachelor's or Master's
- Shape your own research trajectory

VIRTUAL STUDENT OPEN DAY:

November 20, 2024

APPLICATION OPEN FOR 2025 ENTRY:

October 2024 - January 8, 2025

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ISTA Institute of Science and Technology Austria

PHD PROGRAM

PHYSICS & ASTRONOMY & EARTH SCIENCE

For more information about these research groups, visit **phd.ista.ac.at** or scan here:

ISTA provides a single PhD program which enables students to interact with scientists across disciplines as well as pursue their chosen topic in greater depth. Physics is one of the seven study tracks (discipline areas) of our PhD program.

ISTA is a cross-disciplinary research institution that combines basic science research with graduate education in Mathematical and Physical Sciences, Life Sciences, and Information and System Sciences. ISTA is located in the city of Klosterneuburg, on the outskirts of Vienna.

GROUP LEADERS	RESEARCH TOPICS
Zhanybek Alpichshev	Condensed Matter and Ultrafast Optics
Denitsa Baykusheva	Ultrafast Quantum Phases and Spectroscopy*
Johann Danzl	High-resolution Optical Imaging for Biology*
László Erdös	Mathematics of Disordered Quantum Systems and Matrices*
Johannes Fink	Quantum Intergrated Devices
Stefan Freunberger	Materials Electrochemistry*
Carl Goodrich	Theoretical and Computational Soft Matter
Edouard Hannezo	Physical Principles in Biological Systems*
Björn Hof	Nonlinear Dynamics and Turbulence
Onur Hosten	Quantum Sensing with Atoms and Light
Maria Ibáñez	Functional Nanomaterials*
Georgios Katsaros	Nanoelectronics
Mikhail Lemeshko	Theoretical Atomic, Molecular, and Optical Physics
Julian Leonard	Quantum Simulation and Computation with Neutral Atoms
Kimberly Modic	Thermodynamics of Quantum Materials at the Microscale
Jérémie Palacci	Materiali Molli*
Hryhoriy Polshyn	Emergent Electronic Phenomena in 2D Materials
Florian Praetorius	Biomolecular Design*
Charles Roques-Carmes	Nanophotonics and Light-Matter Interactions
Andela Saric	Computational Soft and Living Matter*
Paul Schanda	Biomolecular Mechanisms from Integrated NMR Spectroscopy*
Robert Seiringer	Mathematical Physics*
Maksym Serbyn	Condensed Matter Theory & Quantum Dynamics
Veronika Sunko	Symmetry Probes of Quantum Matter
Gašper Tkačik	Information Processing in Biological Systems*
Latha Venkataraman	Single-Molecule Physics and Chemistry*
Scott Waitukaitis	Soft and Complex Materials
ASTRONOMY	
Lisa Bugnet	Asterics – Asteroseismology and Stellar Dynamics*
Ilaria Caiazzo	Stars and Compact Objects*
Ylva Götberg	Massive Binary Stars*
Zoltan Haiman	Black Hole Astrophysics and Cosmology*
Jorryt Matthee	Astrophysics of Galaxies*
EARTH SCIENCE	
Caroline Muller	Atmosphere and Ocean Dynamics*
Francesca Pellicciotti	Cryosphere and Mountain Hydrosphere*

**Denotes groups that are a part of more than one study track.*