



**GREEK REPUBLIC  
UNIVERSITY OF IOANNINA  
SCHOOL OF SCIENCES  
PHYSICS DEPARTMENT**

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**CALL FOR PROPOSALS  
FOR EIGHT (8) PhD POSITIONS**

The Department of Physics of the School of Sciences of the University of Ioannina accepts applications for doctoral dissertation (PhD) in the following indicative research fields:

	<b>Dissertation subject area</b>	<b>Contact Person</b>	<b>tel./ e-mail</b>
<b>1</b>	Measurements of differential jet cross sections in proton-proton collisions at $\sqrt{s} = 13.6$ TeV with the CMS experiment at the LHC	Professor Panagiotis Kokkas	+302651008520 <a href="mailto:pkokkas@uoi.gr">pkokkas@uoi.gr</a>
<b>2</b>	Engineering of Nanosensors with one-step Flame Spray Pyrolysis	Professor Yiannis Deligiannakis	+302651008662 <a href="mailto:ideligia@uoi.gr">ideligia@uoi.gr</a>
<b>3</b>	Engineering of Nanomaterials and their Nanodevices by Flame Spray Pyrolysis for Energy Applications	Professor Yiannis Deligiannakis	+302651008662 <a href="mailto:ideligia@uoi.gr">ideligia@uoi.gr</a>
<b>4</b>	Interaction of molecular compounds with fs laser fields	Professor Constantine Kosmidis	+302651008537 <a href="mailto:kkosmid@uoi.gr">kkosmid@uoi.gr</a>
<b>5</b>	Physical processes Beyond the Standard Model of Elementary Particles	Professor Athanasios Dedes	+302651008488 <a href="mailto:adedes@uoi.gr">adedes@uoi.gr</a>
<b>6</b>	Phase Diagrams and Dynamics in Binary Systems with Hydrogen Bonds	Professor Georgios Floudas	+302651008564 <a href="mailto:gfloudas@uoi.gr">gfloudas@uoi.gr</a>
<b>7</b>	The dynamics of self-organization in geophysical turbulence	Assistant Professor Nikolaos Bakas	+302651008599 <a href="mailto:nbakas@uoi.gr">nbakas@uoi.gr</a>
<b>8</b>	Study of magnetic flux emergence in the Sun	Professor Vasileios Archontis	+302651008468 <a href="mailto:archontis@uoi.gr">archontis@uoi.gr</a>

In accordance with the Greek law 4957/2022 article 92, eligible to apply are holders of a Master's (MSc) in physics or physics-related subjects, or holders of an undergraduate degree corresponding to an Integrated Master's Diploma (in accordance with the Greek law 4957/2022 article 78, issued by national or recognized as equivalent foreign institutions).

Interested parties are invited to submit the following documents by **06-10-2023** to the Secretariat of the Department of Physics (email: [gramphys@uoi.gr](mailto:gramphys@uoi.gr), address: Physics Department, University of Ioannina, GR 45110, Ioannina, Greece):

1. Application Form
2. Detailed Curriculum Vitae.

3. Certificate of adequate knowledge of at least one official language of the European Union, preferably English.
4. An outline of the proposed doctoral dissertation.
5. Copy of a Masters diploma in science (MSc).
6. Transcript of records of undergraduate and graduate grades.
7. Certificate (Hellenic N.A.R.I.C. / Δ.O.A.T.A.II) (if required)
8. At least two recommendation letters.
9. Statement from the candidate about the research field in which he or she wishes to conduct his or her doctoral dissertation. This option may be one of the research fields outlined in the call proposal. If the selected option is not included in the call proposal, the candidates are required to submit a detailed description of the research subject (at least 500 words).
10. Photocopy of Police ID or Passport.

The languages of submission of the proposed title and of the outline of the dissertation may be Greek and / or English.

Candidates are selected on the basis of their performance in undergraduate and postgraduate studies, the interview (which may also be done by video-conference), the recommendation letters they submit as well as the scientific papers or other research work they have conducted.

The selection process will be completed by **30-11-2023**.

For more information, please contact the Secretariat of the Department during working days and hours at (0030)-26510-07491.

Ioannina,  
30-06-2023

The Chair of the Department  
\*

Samuel Cohen  
Professor

\*The signature has been placed on the original that is on file in the archives of the Secretariat.