



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

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**CALL FOR PROPOSALS**  
**FOR TEN (10) 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><math>\alpha/\alpha</math></b>	<b>Research Field</b>	<b>Supervisor</b>	<b>Contact information</b>
<b>1</b>	Cosmological Observational Constraints on Modified Gravity Theories	Prof. Leandros Perivolaropoulos	2651008632 <a href="mailto:lperivol@uoi.gr">lperivol@uoi.gr</a>
<b>2</b>	Cosmological, Gravitational and Field Theoretical Effects of Solitons	Prof. Leandros Perivolaropoulos	2651008632 <a href="mailto:lperivol@uoi.gr">lperivol@uoi.gr</a>
<b>3</b>	Studies of Quantum Chromodynamics and new interactions using data from the CMS detector at the LHC at CERN	Prof. P. Kokkas	2651008520 <a href="mailto:pkokkas@uoi.gr">pkokkas@uoi.gr</a>
<b>4</b>	Studies of signatures from theories beyond the standard model as well as development of new detector systems for CMS experiment at the LHC	Prof. C. Foudas	2651008750 <a href="mailto:costas.foudas@uoi.gr">costas.foudas@uoi.gr</a>
<b>5</b>	Development of detector systems for High Energy Physics	Prof. C. Foudas	2651008750 <a href="mailto:costas.foudas@uoi.gr">costas.foudas@uoi.gr</a>
<b>6</b>	The Standard Model as an Effective Field Theory: theoretical predictions for phenomena at Large Hadron Collider (LHC) and elsewhere	Prof. A. Dedes	2651008488 <a href="mailto:adedes@cc.uoi.gr">adedes@cc.uoi.gr</a>
<b>7</b>	Flame Spray Pyrolysis Engineering of Photoactive Nanoplasmonics	Prof. Yiannis Deligiannakis	2651008662 <a href="mailto:ideligia@uoi.gr">ideligia@uoi.gr</a>
<b>8</b>	Flame Spray Pyrolysis Engineering of Catalytic Nanooxides	Prof. Yiannis Deligiannakis	2651008662 <a href="mailto:ideligia@uoi.g">ideligia@uoi.g</a>
<b>9</b>	Structural and Electronic Characterisation of Organic Optoelectronic Devices	Associate Prof. E. Evangelou	2651008494 <a href="mailto:eevagel@uoi.gr">eevagel@uoi.gr</a>
<b>10</b>	Confinement effects on the structure and dynamics of soft matter	Prof. G. Floudas	2651008564 <a href="mailto:gfloudas@uoi.gr">gfloudas@uoi.gr</a>

Eligible to apply are holders of a Master's Diploma (MSc) in physics or physics-related subjects by national or foreign recognized as equivalent, institutions ( $\Delta$ .O.A.TA. $\Pi$ . (in accordance with law

3328/2005 (A' 80)). In special cases, eligible to apply are PhD candidates who do not hold a Master's degree. These cases only concern postgraduate students who are enrolled in one of the Postgraduate Studies Programs, have successfully completed the courses within the foreseen time and their performance is excellent. Their application form is submitted within the same time period specified in the current Call for Proposals and does not count towards the total number of vacancies.

Interested parties are invited to submit the following documents by **18/5/2018** to the Secretariat of the Department of Physics:

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 (Δ.Ο.Α.Τ.Α.Π.) (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.

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 **20/6/2018**.

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

Ioannina,  
7-5-2018  
The Chair of the Department

Panagiotis Kokkas  
Professor