

FEDERAL UNIVERSITY OF ESPÍRITO SANTO  
Center for Exact Sciences  
Graduate Program in Astrophysics, Cosmology and Gravitation (PPGCosmo)

EDICT <sup>No</sup> 1/2023 SELECTION  
PROCESS - DOCTORATE  
GRADUATE PROGRAM IN ASTROPHYSICS, COSMOLOGY AND GRAVITATION  
(PPGCOSMO)

<b>EDITAL SUMMARY</b>	
Year:	2023
Semester:	2
Program Coordinator:	Valerio Marra
Date of the notice:	June 1, 2023
Registration period:	June 1, 2023 (00:00) to June 30, 2023 (23:59)
Vacancies:	6 (six) vacancies
Date of the first step:	July 3-4, 2023
PARTIAL result:	July 5, 2023 (published on the Program page)
Date for appeals:	July 5-7, 2023
Date of the second stage:	July 10-12, 2023
PARTIAL result:	July 13, 2023 (published on the Program page)
Resources:	July 13-14, 2023
FINAL RESULT:	July 14, 2023 (published on the Program page)
Registration period:	July 17 to July 31, 2023
Start of classes:	August 1, 2023
Contact:	<a href="mailto:ppgcosmo@cosmo-ufes.org">ppgcosmo@cosmo-ufes.org</a>



FEDERAL UNIVERSITY OF ESPÍRITO SANTO  
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Enrollment and Selection Notice for  
Doctorate in Astrophysics, Cosmology and Gravitation - PPGCosmo  
EDITAL <sup>Nº</sup> 1/2023

The Coordination of the Graduate Program in Astrophysics, Cosmology and Gravitation (PPG-Cosmo), of the Center of Exact Sciences (CCE) of the Federal University of Espírito Santo (UFES), announces that the application process for the Doctoral Program in "Astrophysics, Cosmology and Gravitation" for admission in 2023/2 is open.

## I Registration

- I.1 Period: from June 1, 2023 (00:00) to June 30, 2023 (23:59), Brasilia time, Brazil.
- I.2 Procedure: filling out and sending the electronic form available at the site <http://ppgcosmo.cosmo-ufes.org>
- I.3 Registration documents:
  - I.3.a Curriculum vitae of the candidate.
  - I.3.b Diploma and undergraduate transcript.
  - I.3.c Score obtained in the Unified Examination for Graduate Studies in Physics (EUF), when applicable.
  - I.3.d Master's degree and transcript (if you have entered or completed your master's degree).
  - I.3.e Two letters of recommendation (free format).
  - I.3.f Report of scientific interests. It must contain, at most, one (01) page written in free format, preferably in English, but also accepted if it is in Portuguese. This report consists of a list of topics of research interest explaining why the candidate considers these topics relevant, as well as their relation to previous studies.

## II About the Selective Process

- II.1 The Selective Process will be composed of 02 (two) stages:
  - II.1.a Analysis of CV, the scientific interest report and academic transcript;
  - II.1.b Interview.
- II.2 In the different stages, the following items will be evaluated:
  - II.2.a Curriculum vitae and academic transcripts: performance in undergraduate and graduate courses (when applicable); participation in scientific events in the area; publications in refereed scientific journals in the area; completion of a master's degree. Scientific Interest Report: knowledge of scientific activities





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developed in the area; knowledge of the literature concerning the topics covered; coherence of the presentation; capacity for written expression; adequacy to the lines of research of the PPGCosmo.

- II.2.b Interview: mastery of exposed subjects; capacity for oral expression; coherence of exposition; knowledge of the contents of the disciplines of classical mechanics, electromagnetism, quantum mechanics and statistical physics at the undergraduate level in physics.
  - II.3 The interviews will be public, and other candidates will not be allowed to attend. They will be recorded and may be requested by candidates during the appeals phase.
  - II.4 Each of these steps of item II.1 will be assigned a score from 0 (zero) to 100 (one hundred). Item II.1.a has weight 2 (two) and item II.1.b has weight 1 (one). The final score is a weighted average of these two scores with their respective weights.
  - II.5 Only candidates who obtain a score of 70 (seventy) or higher in the first stage will participate in the interview.
  - II.6 Candidates who obtain a final grade of 70 (seventy) or higher will be considered approved.
  - II.7 The selection process will follow the following schedule.
    - II.7.a The first stage will take place on July 3-4, 2023 and the results of the first stage will be released on July 5, 2023. Appeals may be submitted from July 5 to July 7, 2023. These will be reviewed by the Program's selection committee. The final result of the first stage will be released on July 7, 2023.
    - II.7.b The second stage will consist of interviews that will take place from July 10 to 12, 2023, in person or via teleconference, and will have a maximum duration of one (1) hour. The day and time of the interviews will be set by the selection committee at least 24 hours in advance. The results of the second stage will be announced on July 13, 2023. Appeals may be submitted from July 13 to 14, 2023, and will be analyzed by the selection committee.
    - II.7.c The final result of the selection process will be announced on July 14, 2023, after homologation by the collegiate of the PPGCosmo.
- Single paragraph: All communication between the candidates and the commission in charge of the selection process, including the lodging of appeals, must be done via e-mail [ppgcosmo@cosmo-ufes.org](mailto:ppgcosmo@cosmo-ufes.org).
- II.8 The candidate may indicate, in the application form, his/her preferences about possible advisors from among the PPGCosmo permanent members, and possible co-supervisors abroad, from among the PPGCosmo collaborating members. The selection committee shall seek to satisfy these preferences of the classified candidates





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considering: the classification of the candidate, the availability of vacancies of the supervisor and co-supervisor, and the acceptance of all those involved, i.e., the supervisor, the co-supervisor, and the student himself. If it is not possible to find a consensus in which all three agree, the student will be eliminated from the selection process.

### III The Vacancies

III.1 There are 6 (six) positions available for this call, and it is not mandatory to fill all of them if there are no candidates who meet all the conditions for approval.

III.2 Permanent members of the PPGCosmo (possible advisors) available are:

- III.2.a Humberto Belich (UFES)
- III.2.b Rita dos Anjos (UFPR)
- III.2.c Jaziel G. Coelho (UFES)
- III.2.d Júlio Fabris (UFES)
- III.2.e Wiliam Hipólito-Ricaldi (UFES)
- III.2.f Nelson Pinto-Neto (CBPF)
- III.2.g Miguel Quartin (UFRJ)
- III.2.h Davi Rodrigues (UFES)
- III.2.i Riccardo Sturani (UNESP)
- III.2.j Felipe T. Falciano (CBPF)
- III.2.k Hermano Velten (UFOP)

Single paragraph: Two spots will be reserved for Rita dos Anjos, two spots for Riccardo Sturani, and two spots will be free.

III.3 Available PPGCosmo collaborating members (possible co-supervisors) are:

- III.3.a Yi-Fu Cai (University of Science and Technology of China)
- III.3.b Ruth Durrer (Université de Genève, Switzerland)
- III.3.c José de Freitas Pacheco (OCA, France)
- III.3.d Oliver Piattella (Insubria U., Italy)
- III.3.e Alexey Starobinsky (Landau Institute for Theoretical Physics, Russia)
- III.3.f Jorge Zanelli (Valdivia-CECs, Chile)





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#### **IV Scholarship Awards**

- IV.1 The approval in the selection process does not guarantee the right to receive a PhD scholarship.
- IV.2 The available scholarships will be distributed to the approved candidates respecting the ranking order and the rules associated with the scholarships made available by the funding agencies. The distribution of scholarships will be monitored by the Scholarship Committee to be appointed by the collegiate of the PPGCosmo.

#### **V The Selection Committee**

The selection committee responsible for the selection process described in this announcement will be formed by three members chosen from among the permanent members of the PPGCosmo.

#### **VI - Final Disposition**

All omitted cases will be decided by the collegiate of the PPGCosmo.

