

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

NOTICE ^{Nº} 2/2023
SELECTION PROCESS - DOCTORATE
GRADUATE PROGRAM IN ASTROPHYSICS, COSMOLOGY AND GRAVITATION
(PPGCOSMO)

SUMMARY OF THE NOTICE	
Year:	2024
Semester:	1
Program Coordinator:	Valerio Marra
Date of notice:	December 19th, 2023
Registration period:	December 19, 2023 (00:00) to January 28, 2024 (23:59)
Vacancies:	3 (three) vacancies
Date of the first stage:	January 29-31, 2024
PARTIAL result:	February 1, 2024 (published on the Program page)
Date for appeals:	February 2nd to 4th, 2024
Date of the second stage:	February 5-7, 2024
PARTIAL result:	February 8, 2024 (published on the Program page)
Resources:	February 9-11, 2024
FINAL RESULT:	February 12, 2024 (published on the Program page)
Registration period:	February 13 to March 1, 2024
Classes start:	March 4th, 2024
Contact:	ppgcosmo@cosmo-ufes.org



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Registration and Selection Notice for
PhD in Astrophysics, Cosmology and Gravitation - PPGCosmo EDITAL
N^o 2/2023

The Coordination of the Postgraduate Program in Astrophysics, Cosmology and Gravitation (PPG-Cosmo), of the Exact Sciences Center (CCE) of the Federal University of Espírito Santo (UFES), hereby announces that applications are open for the Selection Process for the Doctoral Course in "Astrophysics, Cosmology and Gravitation" for admission in the period 2024/1.

I Registration

- I.1 Period: from December 19, 2023 (00:00) to January 28, 2024 (23:59), Brasilia time, Brazil.
- I.2 Procedure: fill in and send the electronic form available on the website <http://ppgcosmo.cosmo-ufes.org>
- I.3 Registration documents:
 - I.3.a Candidate's curriculum vitae.
 - I.3.b Graduation diploma and transcript.
 - I.3.c Grade obtained in the Unified Examination for Postgraduate Degrees in Physics (EUF), if applicable.
 - I.3.d Master's degree diploma and transcript (if you entered or completed the master's program).
 - I.3.e Report on scientific interests. This should be a maximum of one (1) page in free format, preferably in English, but also in Portuguese. This report consists of listing the topics of interest in research, explaining why the candidate considers these topics to be relevant, as well as how they relate to their previous studies.
 - I.3.f Two letters of recommendation, sent directly by the referent, using their institutional e-mail address.

II The Selection Process

- II.1 The Selection Process will consist of two (2) stages:
 - II.1.a Analysis of CV, scientific interest report and academic transcript;
 - II.1.b Interview.
- II.2 In the different stages, the following items will be assessed:
 - II.2.a Curriculum vitae and academic transcripts: performance in undergraduate and postgraduate courses (where applicable); participation in scientific events in the field; publications in scientific journals in the field with referee status; completion of a course in the field.





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master's degree. Scientific Interest Report: knowledge of the scientific activities carried out in the area; knowledge of the literature on the topics covered; coherence of the presentation; ability to express oneself in writing; suitability for the PPGCosmo's lines of research.

- II.2.b Interview: mastery of the subjects presented; ability to express oneself orally; coherence of the presentation; knowledge of the contents of the disciplines of classical mechanics, electromagnetism, quantum mechanics and statistical physics at undergraduate level in physics.
- II.3 The interviews will be held in public, and other candidates will not be allowed to attend.
- II.4 Each of the steps in item II.1 will be given a score from 0 (zero) to 100 (one hundred). Item II.1.a has a weight of 2 (two) and item II.1.b has a weight of 1 (one). The final grade is a weighted average of these two grades with their respective weights.
- II.5 Only candidates who obtain a score of 70 (seventy) or higher in the first stage will take part in the interview.
- II.6 Candidates who obtain a final score of 70 (seventy) or more will be considered successful.
- II.7 The selection process will follow this timetable.
- II.7.a The first stage will take place from January 29 to 31, 2024 and the results of the first stage will be published on February 1, 2024. Appeals can be submitted from February 2 to 4, 2024. They will be analyzed by the Program's selection committee. The final result of the first stage will be announced on February 4, 2024.
- II.7.b The second stage will consist of interviews which will take place between February 5 and 7, 2024, in person or by teleconference, and will last a maximum 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 February 8, 2024. Appeals can be submitted from February 9 to 11, 2024, and will be analyzed by the selection committee.
- II.7.c The final result of the selection process will be announced on February 12, 2024, after approval by the PPGCosmo board.
- Sole paragraph: All communication between candidates and the committee in charge of the selection process, including the lodging of appeals, must be made via e-mail to ppgcosmo@cosmo-ufes.org.
- II.8 On the application form, candidates can indicate their preferences regarding possible advisors from the PPGCosmo permanent members and possible co-supervisors abroad, among the PPGCosmo collaborating members. The commis-





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The selection process must seek to satisfy these preferences of the candidates who have been selected, taking into account: the candidate's classification, the availability of vacancies for the supervisor and co-supervisor, and the acceptance of all those involved, i.e. the supervisor, co-supervisor and the student themselves. If it is not possible to find a consensus in which all three parties agree, the student will be eliminated from the selection process.

III Vacancies

III.1 There are 3 (three) vacancies available for this call, and it is not compulsory 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 Rita dos Anjos (UFPR)

III.2.b Rodrigo von Martens (UFBA)

Sole paragraph: Two seats will be reserved for Rita dos Anjos and one seat for Rodrigo von Martens.

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

III.3.a Luca Amendola (Heidelberg U., Germany)

III.3.b Yi-Fu Cai (University of Science and Technology of China)

III.3.c Oliver Piattella (Insubria U., Italy)

III.3.d Alexey Starobinsky (Landau Institute for Theoretical Physics, Russia)

III.3.e Alberto Daniel Supanitsky (ITeDA, Argentina)

III.3.f David Wands (Portsmouth U., UK)

III.3.g Jorge Zanelli (Valdivia-CECs, Chile)





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IV Scholarship Grants

- IV.1 Approval in the selection process does not guarantee the right to receive a doctoral scholarship.
- IV.2 The available scholarships will be distributed to the successful candidates in accordance with 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 PPGCosmo Board.

V The Selection Committee

The selection committee responsible for the selection process described in this notice will be made up of three members chosen from among the permanent members of the PPGCosmo.

VI - Final Disposal

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

