

INFORMATION ON THE MODES OF ADMISSION AT THE PHD IN ASTRONOMY, ASTROPHYSICS AND SPACE SCIENCE

GENERALITIES

- The PhD is in English. The PhD is a joint Sapienza, Tor Vergata, INAF program. This year, 2016, the applications will be handled by Sapienza, università di Roma.

- The research fields covered by the PhD programs are:

- i) Galactic and extragalactic Astrophysics,
- ii) Gravitation and Cosmology,
- iii) Solar, Planetary and Stellar Physics,
- iv) Space Sciences.

- For this XXXII cycle the program offers a total of 14 positions.

- Eleven positions out of 14 are covered by fellowships.

Fellowships: 4 are offered by Sapienza, Università di Roma, 4 are offered by University of Tor Vergata, in the list indicated [HERE](#)

while 3 are offered by Istituto Nazionale di Astrofisica INAF.

The 3 INAF fellowships are on the following topics:

1. Origin and cosmic evolution of iron in the IntraCluster Medium.
2. Analysis and interpretation of photometric data for stellar populations and pulsating stars in the halo of the Milky Way and its satellite galaxies.
3. Search for X and Gamma-ray cosmic sources of gravitational waves events with INTEGRAL and NuStar.
4. Communicating the Energy: accretion properties and feedback in AGN.
5. Core collapse Supernovae and their gravitational wave emission.

EXAMINATION AND ACCESS MODES

APPLICATION

The academic degrees required to apply to the PhD program are:

- for italian applicants: all 'laurea di vecchio ordinamento' (before DM 509) or Laurea Specialistica or Laurea Magistrale ex DM 509 and DM 270;
- for foreign applicants: all academic titles equivalent to the ones required for italian applicants, i.e. Master of Science or equivalent.

To be properly inserted in the final classification, the above university title/qualification must be acquired **strictly within October 31st 2016**.

MODES OF ACCESS

The access at the PhD program requires that the applicant/candidate passes an **examination** consisting in an **evaluation of CV and titles** followed, if shortlisted, by an **oral interview**. Upon request, the interview can be done via teleconference. In this case, the candidate should necessarily indicate a Skype account and needs to be equipped with a webcam suitable for a skype videocall. It should also show a copy of the same document presented at the moment of application to be identified properly.

Required Documentation

The applicant should prepare a **single compressed file** named with his surname preceded by his name's first initial and an underscore symbol (e.g. for the applicant Carlo Rossi the file should be called C_Rossi.tar.gz).

The file has to **be sent to the e-mail address aassphd@uniroma1.it** specifying in the subject field the name and surname of the applicant, and **must contain the following documentations:**

- 1) motivation letter (maximum one A4 page), written by the candidate. The letter must state the preferred field of research area among the ones available, see points i)-iv) in the Generalities section above, and provide a brief description of the research line of interest.
- 2) Curriculum Vitae of the candidate.
- 3) List and marks of all the courses taken during the Bachelor and Master degrees.
- 4) Final marks of the bachelor and master degrees.
- 5) List of publications and all other documents that the applicant considers relevant. The publications and documents must be included in the application file.
- 6) Names and addresses of two teachers/researchers who will write letters of reference.

IMPORTANT: The two letters of reference should NOT be attached to the application, but **should be sent, no later than the deadline of this call, directly** by the teachers/researchers at the same e-mail address: aassphd@uniroma1.it.

It is responsibility of the candidate to verify that teachers/researchers send the reference letters in time.

It is strongly appreciated that the letters of reference are written according to these templates:

[letterofreference.docx](#) (word)

[letterofreference.pdf](#) (pdf)

SELECTION MODES

The admission to the PhD is done by the admission committee through the evaluation of the applicants CV and, if shortlisted, by a subsequent interview.

The CV and titles evaluation is made by the committee, that assigns a maximum of **30 points** to each candidate.

The threshold for admission to the interview is **18 points**.

The CV and titles evaluation score takes into account, with rules and weights defined by the selection committee, all the following:

- motivation letter, letters of recommendation, curriculum of studies (votes at exams at bachelor and MSci and votes obtained to obtain bachelor and MSci, if available), publications, participation to conferences, other degrees beside the academic degree (masters, etc.), awards, contracts, internships and apprenticeships, certificates of proficiency in foreign languages, and whatever the applicant considers useful for his evaluation.

INTERVIEW

Applicants who successfully pass the first step of evaluation will sustain an **interview**.

The interview lasts about 30 minutes and the evaluation committee will assign a maximum of **70 points**.

Only those candidates that exceed the threshold of **60 points** for the total titles and interview score are eligible to the PhD program, within the total number of positions available.

DATES OF THE EXAMS

Publication day of the list of candidates admitted to the interview:
September 9, 2016.

Interviews starts on **September 12, 2016, at 9 am**

The site for the interviews is the Department of Physics of Sapienza, università di Roma sala Lauree, 1st floor of the G. Marconi building.

The final list will be published in the PhD web site
<http://www.phys.uniroma1.it/fisica/PhD-Astronomy>

FURTHER INFO

Any possible question on the selection modes must be addressed to
roberto.capuzzodolcetta@uniroma1.it
specifying in the 'subject' field: question on PhD selection