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D.D. n. 154 of 28 June 2019

**Selection on the basis of qualifications and possible interview for the awarding of a postdoctoral research grant: *"Exploitation of deep LOFAR and Euclid surveys for galaxy evolution and cosmology science"*.**

### Il Direttore

**In accordance with** the legislative decree, March 30, 2001, n. 165 and subsequent amendments and additions and, in particular, art. 35;

**In accordance with** the legislative decree, June 4, 2003, n. 138 of reorganization of the National Institute of Astrophysics;

**In accordance with** the Statute of the "National Institute of Astrophysics" which entered into force on September 24, 2018;

**Having regard** to the INAF Rules of Procedures, approved by the Inaf Board of Directors with resolution no. 44 of June 21, 2012;

**In accordance with** the resolution of the INAF Board, nr. 28 of December 16, 2015 for the approval of amendments and additions to the INAF Rules of Procedures;

**In accordance with** the INAF Staff Regulations, approved with Board Resolution n. 23/15 of May 11, 2015;

**In accordance with** the Law of December 30, 2010 n. 240, in particular, art. 22;

**In accordance with** the Law of 27/2/2015 n. 11 of conversion with changes of D. L. 31.12.2014 n. 192 containing: "Extension of deadlines provided for by legislative provisions", and in particular art. 6 paragraph 2- bis: "The overall duration of the relationships established, pursuant to art. 22, paragraph 3, Law 30/12/2010, n. 240, is extended by two years";

**In accordance with** the Regulations for research-grant awarding, approved by the INAF Board of Directors on 22/06/2011;

**In accordance with** the Legislative Decree 25/05/2017, n. 75, in particular article 20;

**In accordance with** the Guidelines for the recruitment of non-permanent staff, approved by the INAF Board of Directors on 30 January 2018;

**In accordance with** the provisional Guidelines for the awarding of research grants for carrying out research activities, approved at the INAF Board of Directors meeting of 23 March 2018;

**Having regard** to the provisional Guidelines for announcing research grants approved by the INAF Board of Directors on 29 January 2019;

**In accordance with** the request to issue a call for postdoctoral research fellowship, of Doctor Roberto SCARAMELLA, scientific director and fund-holder of the research project "Cosmology and Fundamental Physics: illuminating the dark universe with Euclid";

**Ascertained** that financial coverage is granted with assigned funds charged on the Cost Center 1.06 - Rome Astronomical Observatory, Objective-Function 1.05.01.89.03 - Cosmology and



Fundamental Physics: illuminating the dark universe with Euclid and OF 1.05.01.88.03 (PRIN SKA/CTA FORECaST, ref. Prandoni), for a total of euros 34.500,00,

## DECREES

### Art. 1 - Research project

A public selection based on qualifications, possibly integrated by an interview, is open to award a postdoctoral research fellowship on: "*Exploitation of deep LOFAR and Euclid surveys for galaxy evolution and cosmology science*". The fellow is expected to carry out a research project in the field of observational radio astronomy. In particular (s)he is expected to work on the scientific exploitation of a deep LOFAR survey covering the Euclid Deep Field North, with particular focus on galaxy evolution and/or cosmological studies.

This work will be carried out under the supervision of Dr. Roberto Scaramella (Observatory of Rome, Monte Porzio Catone) and Dr. Isabella Prandoni (Institute of Radioastronomy, Bologna).

For further information on the scientific aspects of the research project, please contact Doctor Roberto SCARAMELLA (e-mail: roberto.scaramella@inaf.it).

Pursuant to Article 22, paragraph 1 of Law No. 240, December 30, 2010, the National Institute for Astrophysics may award research grants for scientific and technological research, which can be funded either with ordinary funds or with external funds, and must be aimed at carrying out a scientific or technological research activity within the scope of the institutional activities listed in article 2 of the Statute. The research grants referred to in Article 22, paragraph 1, of the Law of December 30, 2010, number 240:

- a) offer candidates an opportunity for professional growth, and the possibility of carrying out scientific or technological research in a highly qualified environment;
- b) are aimed at the realization of specific projects and cannot be used to meet the staff needs of the Institute.

### Art. 2 - Admission requirements

Participation in this selection is reserved to Italian or foreign citizens, with the following minimum requirements:

- PhD in Physics, Astrophysics or Astronomy or equivalent title, awarded by a Higher Institute or University
- Or
- Degree (Italian old system) or master's degree in Physics, Astrophysics or Astronomy issued by a Higher Institute or University (also foreign), followed by at least 3 years of documented experience in scientific or technological activities.



Foreign candidates with equivalent qualifications, on the basis of either International agreements or regulations are admitted. Candidates with qualifications obtained abroad, which have not yet been declared equivalent under the law, will be evaluated by the Board of Examiners, who may admit them with reserve, provided they attach a copy of the request for the title equivalence in the application form. The candidate who wins the selection and has an unrecognized qualification obtained abroad, will have 30 days – starting from the end of the selection procedures, to submit the official title equivalence, under penalty of exclusion from the ranking.

A good knowledge of English is required.

Applications will be further evaluated based on the following selection criteria:

- Demonstrated research activity in extra-galactic astronomy and/or cosmology;
- Involvement in research activities with the LOFAR interferometer and/or in preparation of Euclid surveys;
- Experience with LOFAR data and with the LOFAR imaging pipeline.

### **Art. 3 - Application for admission**

Applications for admission to the competition, written on plain paper, exclusively according to the scheme described in Annex 1), must be sent:

- a) by hand, to the Protocol Office of the INAF - Rome Astronomical Observatory, Via Frascati 33, CAP 00078 - Monte Porzio Catone (RM), within the application deadline (to this aim, the receipt issued by the office itself serves as proof), only in the following days and times: from Monday to Friday from 9:00 am to 1:00 pm;
- b) or by certified electronic mail (PEC) to the address [inafoaroma@pcert.postecert.it](mailto:inafoaroma@pcert.postecert.it) (the date will be certified by the IT system); attachments must be in .pdf format;

**no later than July 25, 2019.**

In case of certified mail submission, the mail must be sent by 11:59 pm on the expiry day.

If this deadline falls on a public holiday, it will be extended to the following working day.

The envelope containing the application (or the subject of the certified email) must clearly state: name, surname and address of the candidate and the words "Research Grant - Exploitation of deep LOFAR".

Incomplete applications will not be taken into consideration. Application which are not consistent with the attached form, or without the applicant's signature will be excluded from the selection procedure.

The application must be accompanied by:

1. curriculum vitae et studiorum, which also indicates any scholarships previously received;
2. list of publications;



3. in the case of foreign citizens, a copy of the certificate or degree certificate showing the list of exams and the final grade, or equivalent foreign degree;

4. list of titles and of all attached documents, specifying the number of typescripts and printed articles attached;

5. declaration (with self-certification value) of:

- possession of a degree;
- possession of the title of research doctor, and any further specialization diploma, or attendance of post-graduate specialization courses obtained in Italy or abroad, as well as research activities with public and private subjects with contracts, scholarships of study or assignments, both in Italy and abroad or work activities that the candidate deems appropriate to produce.

The self-certification, drawn up according to the attached facsimile (Attachment 2), must be dated and signed, accompanied by a copy of a valid identity document. In case of self-certification, the candidate must mention his/her qualifications, indicating all the necessary details for verifications on the part of the Observatory Administration.

#### **Art. 4 – Incompatibility**

Research grants cannot be awarded to INAF staff with a fixed-term or permanent contract, as well as to permanent staff in the Institutes mentioned in art. 22, paragraph 1 of Law 240/2010.

The entitlement of the grant is not compatible with participation in degree courses, specialization or master degrees and with a PhD scholarship, and involves the placement on unpaid leave for the employee of any State administrations.

The research grant cannot be combined with scholarships awarded for any reason except those useful for integrating the research activity of the research fellow for visits abroad.

Cumulation with income from continuous work activities, even part-time, is not allowed. Instead, a limited occasional self-employment activity is compatible with the grant, as long as the research activity carried out on behalf of INAF is not in contrast or delayed.

This activity must be previously authorized by the Director of the Structure where the research project is mainly carried out.

The assignee, upon acceptance of the contract, must issue a specific declaration of non-existence of incompatibility situations.

#### **Art. 5 – Place and duration of the research grant**

The research activity will take place at the headquarters of INAF-Astronomical Observatory of Rome, via Frascati 33, 00078 Monte Porzio Catone (RM). Visits to the INAF Radioastronomy Institute in Bologna are expected, to closely collaborate with local experts in LOFAR data reduction and analysis.

The duration of the research grant is 12 months. Grants for the carrying out of scientific or technological research activities are initially activated for a period of one year and are renewable, subject to the availability of funds, for a maximum of six years, in compliance with the provisions of current legislation on the subject.

It is not possible to change the type of grant (such as, for example, from "Professional" to "Post-Doctoral") even if the research fellow has acquired the requirements for access to another type.



The "renewal" of research activity grants allows the extension, by signing a special supplementary deed, of the duration of the initial contract before its natural expiry, under the same legal and economic conditions, and in compliance with the following methods and procedures:

- the duration of any renewal is normally annual, but renewals for fractions of a year are allowed, upon motivated request of the Scientific Coordinator;
- the renewal is authorized by the Director of the previous structure:
  - Motivated request of the Scientific Coordinator of the program and/or activities, in which (s)he also confirms a positive evaluation of the research activities carried out by the grant holder;
  - Verification of financial coverage.

The total duration of the relationships established with the research grant holder for the carrying out of research activities under Article 22 of the Law of 30/12/2010, number 240, even if the contracts are awarded by different public, private or digital universities, as well as from other public bodies or administrations, cannot in any case exceed six years, even if not continuous, without prejudice to maternity or health leave, according to current legislation.

#### **Art. 6 - Amount of the research grant**

The annual gross amount of the research grant is **€ 28,000.00 (twenty-eight thousand)**: as net of the withholdings for retirement plan borne by the INAF-Astronomical Observatory of Rome. It will be paid in monthly installments.

The provisions will be applied, as from art. 4 of law n. 476/1984 and subsequent amendments and additions, in relation to social security; art. 2, paragraphs 26 and ff, law n. 335/1995 and subsequent amendments and additions, concerning compulsory maternity leave: Decree of the Minister of Labor and Social Security 12/07/2007, published in the "Gazzetta Ufficiale" (Official Journal) n. 247 of 23/10/2007. As for sick leave, see art. 1, par. 788, Law 27.12.2006 n. 296 and subsequent amendments. In the period of compulsory maternity leave, the compensation paid by INPS pursuant to art. 5 of the aforementioned decree 12.07.2007 is supplemented by INAF up to the entire amount of the research grant. The period of compulsory maternity leave does not contribute to the duration of the check envisaged by the contract.

The grant holder should pay his/her own accident insurance policy, which should be shown when signing the contract.

#### **Art. 7 - Selection Committee**

The selection of candidates is carried out by a Selection Committee appointed by the Director of INAF-Astronomical Observatory of Rome.

The Board of Examiners is composed of three members, chosen from among the research staff, including University staff, whether Italian or foreign, experienced in the research program topics, including the project manager. In accordance with current legislation, the composition of the commission must also guarantee, where possible, an adequate gender balance. The Chairperson of the commission, indicated by the appointment decree, is chosen from among its members. The same decree will indicate the name of the secretary.



### **Art. 8 - Selection procedure**

The selection is based on qualifications supplemented by a possible in-depth interview in person or by videoconference. The Commission has a total of 100 points, of which up to a maximum of 70 points for titles, and 30 points for the interview. The evaluation of the qualifications, after identifying the general criteria, is carried out before the possible interview.

Due to its aims, the grant for the carrying out of scientific or technological research activities is reserved to young and in-training personnel. The recent achievement of the qualification title, degree or doctorate, as well as the other educational activities carried out by the candidates must therefore be evaluated with an adequate score.

The criteria adopted by the commission for the evaluation of qualifications and any interview must be inspired by the general principles sanctioned by the European Charter for Researchers. The following are assessed as qualifications: research doctorate, specialization diplomas and attendance certificates for post-graduate specialization courses, obtained in Italy or abroad; proven research activities in public and private Institutes through contracts, scholarships or assignments, both in Italy and abroad; publications in the scientific or technological fields related to the research program covered by the call.

In case of equal score, a PhD is considered an asset.

The Board may draw a short-list of suitable candidates who will be invited for the interview.

The Board will summon the candidates with a minimum of 15 days prior notice, by telegram or certified e-mail. The score obtained in the evaluation of the qualifications will also be included in the letter.

At the end of the session related to the interview, the list of the examined candidates, together with their scores, is made public.

The decree approving the acts, containing the merit ranking, will be published on the website of the Astronomical Observatory of Rome: [www.oa-roma.inaf.it](http://www.oa-roma.inaf.it).

In case the winner withdraws, the research grant can be awarded to the next candidate in the ranking.

### **Art. 9 - Formalization of the contract**

Within ten days from the date of receipt of the formal communication, the winner will issue a formal declaration of acceptance of the research grant without reservations, under the conditions written in the contract, which will be concluded on the date and in the place established by the Observatory. The winner must also confirm that he/she has no incompatibility, as listed in art. 4 of this announcement.

Within the same period, the winner who wants to renounce must send a withdrawal statement to the Observatory.

Signing the contract does not in any case give rise to a subordinate employment relationship or to rights regarding access to INAF roles.

The insurance policy against accidents at work must be made before starting the research activity, under penalty of forfeiture of the grant.



Regarding the risks of civil responsibility towards third parties, the researcher will be covered by an insurance policy stipulated by INAF. The policy does not cover the civil liability of the researcher towards INAF.

**The Director of the Observatory appoints Doctor Roberto SCARAMELLA as the Tutor** responsible for supervising and coordinating the activity of the research fellow.

The grant holder should write periodic reports on the activity being carried out. The frequency of these reports will be indicated in the contract. These reports must be approved by the Scientific Coordinator and forwarded to the Director of the Astronomical Observatory of Rome.

The lack of approval, duly justified by the Scientific Coordinator, will entail the right of termination of the contract by the administration.

In the event of withdrawal from the contract, the research fellow is required to give thirty days' notice.

The notice period starts from day 1, or from the 16th of each month.

In the event of failure to give notice, the Administration has the right to withhold or recover from the assignee an amount corresponding to the remuneration for the missing prior notice. The remainder may be assigned to another candidate in order of ranking, subject to specific contract.

#### **Art. 10 Starting date and duties**

The starting date of the research grant is established by the Director of INAF-Astronomical Observatory of Rome, when concluding the contract.

The presumed date of activation of the contract is September 1, 2019.

The grant holder is obliged to:

- a) first of all sign the employment arrangements in the planned research activity and any further detail;
- b) to start promptly, except for justified temporary impediment to be promptly communicated to the Observatory, on the contractually indicated date the research activity scheduled at the INAF headquarters - Rome Astronomical Observatory;
- c) to continue the research activity regularly throughout the grant term;
- d) to observe all the internal rules of the Observatory, and any other provisions issued by the Director and by the Scientific Coordinator;
- e) to deliver to the Observatory Director the periodic reports on the research activity carried out, approved by the Scientific Coordinator.

The grant holder who, after having started to carry out the research activity in the program, does not continue it regularly and without interruption without a justified reason, for the entire duration of the grant, or who is responsible for serious and repeated shortcomings, or who, according to the Project Manager, shows an evident inadequacy for research in the program, may incur the termination of the contract, with consequent disqualification from further use of the grant, through a reasoned statement of the Director.

Any internal procedure for the termination of the contract will be notified to the interested party, who will have the right to submit each of his counter-arguments in this regard with a written statement addressed to the Director of the Observatory.



The conclusion of the same procedure, both in the case of simple remittance to the proceedings, without further consequences, and in the event of an effective decision to terminate the contract, will also be communicated to the interested party.

Temporary suspensions may be justified in the use of the research grant, only if the holder is pregnant and/pr has just given birth to a child, or is ill for more than a month, or for another serious reason. The conditions of suspension of the check will be duly substantiated and documented, and promptly communicated to the Observatory.

### **Article 11**

#### **Personal data processing**

In accordance with Article 13 of the "Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of individuals with regard to the processing of personal data, as well as the free circulation of such data, and repealing Directive 95/46 / EC ", also known as the " General Data Protection Regulation ", the " National Institute for Astrophysics ", as data controller, informs that the processing of personal data made available by the candidates who are applying. participation in this insolvency procedure, or in any case acquired for this purpose by the aforementioned "Institute", is aimed solely at the performance of the activities and the adoption of acts and provisions envisaged by the aforementioned procedure and will be carried out by the persons in charge of its execution, including the members of the Examination Commission, at the same "Institute".

The data will be processed using specific procedures, including computerized ones, in the ways and within the limits necessary to pursue the purposes specified in the previous paragraph, also in the event of any communication to third parties.

The provision of personal data is necessary to verify the possession of the requirements for participation in the insolvency procedure and their failure to indicate it may preclude such verification.

Interested parties are recognized the rights referred to in articles 15 and following of the "General Data Protection Regulations" and, in particular, the right to access their personal data, to request the correction, deletion, limitation of the processing, as well as to oppose the processing, which may be exercised by submitting a request to the "National Institute of Astrophysics", based in Rome, in Viale del Parco Mellini number 84, Postal Code 00136, in the manner defined in the following paragraph.

The rights indicated in the previous paragraph may be exercised, without any formality, by sending a request to the "Data Protection Officer" of the "National Institute of Astrophysics":

- a) by registered letter with acknowledgment of receipt to the address specified in paragraph 4 of this article;
- b) by e-mail sent to the following address: [rpd@inaf.it](mailto:rpd@inaf.it);
- c) by certified e-mail sent to the following address: [rpd-inaf@legalmail.it](mailto:rpd-inaf@legalmail.it).

Individuals who consider that the processing of their personal data is carried out in violation of the provisions contained in the "General Data Protection Regulations" and those provided for in this article have the right to lodge a complaint with the Guarantor for the Protection of Personal Data, in compliance with the provisions of article 77 of the aforementioned Regulation, or referral to the



competent judicial authority, in compliance with the provisions of article 79 of the aforementioned Regulation.

#### **Art.12 Person Responsible for the procedure**

According to the art. 8, paragraph 3 of the Regulations for the awarding of INAF research fellowships the person responsible for the insolvency proceedings of this announcement is dottor Danilo ANTONELLI.

#### **Art. 13 Advertising**

The full publicity of this announcement is set up via a computer network with transmission to the Astronomical and Astrophysical Observatories and to the scientific institutions of the sector in general, publication on the INAF website ([www.inaf.it](http://www.inaf.it)) and of the Astronomical Observatory of Rome ([www.oa-roma.inaf.it](http://www.oa-roma.inaf.it)).

#### **Art. 14 - Referral rules**

As applicable to the procedure for awarding research grants, the Observatory ensures the observance of the laws in force concerning equal opportunities, anti-discrimination and the protection of confidentiality in the processing of personal data. For matters not covered by this notice, the Observatory will comply, where applied by analogy, with the current legislation governing public competitions.

Monte Porzio Catone, 28 June 2019

THE DIRECTOR  
dottor Lucio Angelo ANTONELLI



ATTACHMENT 1  
APPLICATION FORM FOR THE SELECTION

To the Director of the INAF-Astronomical Observatory of Rome  
Via Frascati n. 33  
00078 Monte Porzio Catone (RM)

The undersigned (name) ..... (surname) ..... born / a .....  
(prov.di .....) the ..... living in (location) ..... (Piazza way)  
..... n ..... (full address), tax code ..... asks to be admitted  
to the selection for the award of a post doctoral research grant entitled: "Exploitation of deep  
LOFAR and Euclid surveys for galaxy evolution and cosmology science".

Declares under his/her personal responsibility:

- a) to be a citizen .....
- b) to enjoy civil and political rights;
- c) to have no criminal record, or to have pending criminal proceedings (if not, specify which convictions or proceedings) .....
- d) to have the following degree:  
.....
- e) to have obtained the following research contracts and / or scholarships:  
..... (indicate the duration and the Entity);
- f) to have the following ongoing research contract or scholarship: .....  
(indicate the duration and the Entity);

I am enclosing the following documentation:

1. curriculum vitae et studiorum, including previous and current scholarships;
2. list of publications available online;
3. any other job and publication, which is not available electronically, and the candidate deems useful to qualify your scientific curriculum;
4. in the case of foreign citizens, a copy of the certificate or university degree, which includes the list of exams and the final grade, or equivalent foreign degree and a copy of the PhD, or equivalent equivalent qualification ;
5. list of titles and any other document, specifying the number of typescripts and printed papers attached;
6. statement according to the facsimile in Annex 2.

**INAF**



ISTITUTO NAZIONALE DI ASTROFISICA  
NATIONAL INSTITUTE FOR ASTROPHYSICS

**Osservatorio Astronomico di Roma**

Direzione

The undersigned also allows the Administration of the INAF-Observatory Astronomical Rome to processing his/her personal data for exclusive purposes of the selection in question.

The undersigned would like all communications regarding this selection to be sent to the following address, post code included (also specify, if possible, your telephone number, fax, and e-mail address):

.....  
(Place and date).....

(Plain Signature)  
.....



ATTACHMENT 2

SELF CERTIFICATION

The undersigned, ..... born in ..... on ....., living in Via / Piazza ..... nr. ...., (town.....) ..... Post Code ..... Province ..... .. Status ....., in its capacity as candidate for selection for a research grant issued by INAF Astronomical Observatory of Rome with DD n. ... / 2019, aware that false statements, falsified documents and the use of false documents are punished pursuant to the Penal Code and the laws on the subject,

DECLARES AND SELF-CERTIFIES

1) that the copies of the dissertations, publications, and papers here submitted conform to the original;

2) to have obtained on ..... the degree in ..... at the University of ..... with the score .....

3) to possess the following qualifications (specify the details):

PhD in ... (received in date or defense planned in date) ..... by ..... University

attendance certificates for post-graduate specialization courses:

.....

scholarships: .....

contracts for research activities in public and private Institutes:

.....

other: .....

.....

(Place and date)

..... (\*)

(Full Signature of the candidate)

(\*) The signature does not need to be certified.

N.B. The declaration must be presented or sent together with a photocopy, not certified, of a valid personal identity document of the declarant.