



A.F. 2013

D.D. n. 49

Selection procedure based on qualification and possible interview for one postdoctoral research fellowship (Assegno di Ricerca Tipologia A POST-DOC) entitled "Formation and evolution of first galaxies and AGN through the analysis of deep spectroscopic surveys".

THE DIRECTOR

Taking into account the Decreto Legislativo 4 giugno 2003, n. 138 - Riordino dell'Istituto Nazionale di Astrofisica (INAF) published on G. U. n.140, 19 June 2003;

Taking into account the Decreto Legislativo 31 dicembre 2009, n. 213 - Riordino degli Enti di Ricerca in attuazione dell'art. 1 della Legge 27 settembre 2007, n. 165;

Taking into account Italian Law n. 240, 30 Dec 2010, of which art. 22 in particular;

Taking into account the INAF Statute, approved on 7 March, 2011, and effective as of 1 May 2011;

Taking into account the INAF "Regolamento di organizzazione e funzionamento" approved on 21 June, 2012, and effective as of 23 July 2012;

Taking into account the INAF "Regolamento sull'amministrazione, sulla contabilità e sull'attività contrattuale" as of 24 Oct 2004;

Taking into account the INAF "Personnel Rules and Regulations" published on G. U. n. 300, 23 December 2003;

Taking into account the INAF Regulations for the awarding of research fellowships approved by the administrative Council on 22 June 2011, Resolution n. 06/11 and subsequent amendments;

In accordance with the request by Dr. Eros Vanzella in date October 8, 2013;

Given that financial coverage of the fellowship is granted within CRA 1.05.01.09.17 "A complete view of the first 2 billion years of galaxy formation" (ref. Adriano Fontana), CRA 1.05.06.02.08 Premiale A complete view ESO (resp. Vanzella) and CRA 1.05.01.98.01 PRIN INAF 2012 (ref. Laura Pentericci) "From the re-ionization epoch to the peak of star formation: investigating galaxy mass assembly and evolution" on chapter 1.05.08 "Borse di studio e assegni di ricerca" of INAF budget for year 2013 – cost center 1.05 (Bologna);

DECREES

Art. 1 - Research project

A selection based on titles and qualification and possible interview is open to award one research fellowship, "Assegno di Ricerca – Tipologia A POST-DOC", entitled "Formation and evolution of first galaxies and AGN through the analysis of deep spectroscopic surveys".

The project is focused on the exploitation of invaluable data sets coming from a number of new and ongoing Large and Normal spectroscopic Programs at VLT and LBT in which the Cosmology group of the Astronomical Observatory of Bologna (INAF-OABO) is involved: "Looking for the CANDELS that reionized the Universe" (VLT/FORS2 LP, P.I., Pentericci), VUDS (VLT/VIMOS LP, P.I., Le Fevre), the CLASH-VLT (VLT/VIMOS LP, P.I., Rosati) and the LBT/MODS "Gravitational telescopes as a powerful tool to constrain the tail-end of the reionization



epoch" (LBT/MODS, P.I., Vanzella). All these above programs are accompanied by the state-of-the-art photometric surveys (e.g., GOODS, CANDELS, CLASH, Frontier Fields, etc.), in which the INAF-OABO is also involved/working on. These programs allow to tackle a range of topical issues in cosmology and galaxy evolution. In particular, on the investigation of rest-frame spectroscopic ultraviolet properties of high redshift galaxies/AGN and their relation with relevant physical quantities, like the star-formation/AGN activity, metallicity evolution in gas and stars, stellar mass, ionizing escaping radiation, nebular emission, etc., at moderate/high redshift ($2 < z < 6$) and close to the reionization epoch ($z \sim 7$). Besides the above aspects, research includes analysis of deep multi-object spectroscopic data (VLT-FORS/VIMOS and LBT-MODS). The successful applicant will work in collaboration with dr. Eros Vanzella and with other members of the Cosmology group of INAF-OABO, and will have the possibility to pursue his/her research activity related to the above mentioned studies on high- z galaxies. He/She will also have the opportunity to collaborate with national and international researches who are involved in the above mentioned Programs.

Art. 2 - Requirements

Applicants must fulfill the following requirements, under threat of being excluded, in order to participate in the selection:

- PhD degree in Physics or Astronomy issued by an Italian (or foreign) Advanced Studies Institute or University;

alternatively:

- degree in Physics or Astronomy issued according to the previous Italian University regulations or degree in Physics or Astronomy either "specialistica" or "magistralis" (new Italian University regulations) or equivalent degree issued by an Italian or foreign Advanced Studies Institute or University, together with at least three years of documented experience in scientific activities.

A good level of the English language is required.

Art. 3 - Application procedure

Applications (Annex 1) should come to the attention of the Director of INAF-Osservatorio Astronomico di Bologna, Via Ranzani n. 1, 40127 Bologna - signed and dated by the applicants and with all the requested documents enclosed - not later than midday of November 25, 2013, in one of the following ways:

- either directly (by hand) to the competent office of INAF-Osservatorio Astronomico di Bologna;
- or by authorized courier;
- or by registered mail with proof of receipt;
- or in electronic form (PDF) at the certified e-mail address: inafoabologna@pcert.postecert.it. Only applications sent by e-mail not later than midday of November 25, 2013 will be given full consideration. Please quote reference "D.D. n. 49/2013 Postdoctoral Fellowship" on all correspondence.

A. The applicant must state clearly and precisely in the application form, under his/her own responsibility:



- name(s) and surname, date and place of birth, nationality, place of residence and address for correspondence;
- that he/she satisfies all the requirements described in article 2 of this Call;
- that he/she is aware of and is not ineligible under any of the restrictions described in article 4 of this Call.

The lack of any of the above mentioned declarations will determine the exclusion from the selection procedure for incomplete application.

B. The applicant should send the following documents:

- (1) Complete Application Form, as provided in attachment to this announcement (Annex 1);
- (2) Curriculum vitae, signed and dated by the applicant, detailing on past experience on the subject of this fellowship and including the full publications records;
- (3) Statement of research interests and qualifications;
- (4) List of publications relevant to the topic of the research project;
- (5) Copy of a valid identity document (ID card or passport);
- (6) CV Declaration (Annex 2).

C. The applicant should also arrange to have two letters of reference by scientists familiar with his/her work, sent directly to the e-mail address: eros.vanzella@oabo.inaf.it.

INAF accepts no responsibility for the loss of applications or documents, where due to the applicant having provided incorrect contact details or having failed or delayed in notifying changes of these details, or to problems with postal delivery not due to INAF.

Art. 4 - Ineligibility and incompatibility with other funding

The Research fellowship cannot be held either by INAF employees holding both permanent and non-permanent contracts, nor by regular employees of Institutes listed in article 22, paragraph 1 of Italian Law n. 240/2010. Fellowship holders are not allowed to enroll in a "Laurea Specialistica", or "Laurea Magistrale" (Master Level) degrees, or to enter a PhD program covered by a separate fellowship. For employees of the Italian Public Administration, a compulsory unpaid leave of absence is foreseen.

The fellowship cannot be held contemporarily with other fellowships of whatever kind, except those awarded with the aim of integrating the training or research activity of the fellowship holder through a period spent abroad. Aggregation of income from working activities, also part-time, carried out continuously is not accepted. Instead, limited self-employed occasional work is compatible with the fellowship, only if this is not prejudicial to the research activity carried out for INAF. This must be authorized in advance by the Director of INAF/OA-Bologna, where most part of the research activity is carried out.

When formally accepting the fellowship, the successful candidate will issue a declaration of absence of inadmissible cumulating of fellowships/fellowships.

Retired persons are not eligible for Research fellowship.

Also excluded from participation are persons who have carried out Research fellowships under article 22 of Italian Law 240/2010 for a total period exceeding four years, including extensions, but



excluding the periods in which the fellowship has been held in coincidence with Doctoral studies up to the maximum legal time limit of the course and excluding periods of maternity leave or sick leave, in accordance with current legislation.

Art. 5 - Duration of the Research fellowship

The Research fellowship is awarded for 24 months, with possible extension depending on positive assessment by the supervisors of the research project and on funding availability.

Art. 6 - Host Institution

The fellow will carry out the research at the INAF Osservatorio Astronomico di Bologna.

Art. 7 - Salary

The gross yearly salary for this position will be 28.000,00 (Twenty-eight-thousand/00) Euro.

This amount is net of burdens to be charged to INAF/OA-Bologna and will be paid in deferred monthly installments.

Applicable fiscal rules are the provisions of art. n. 4 of Italian law n. 476/1984 and subsequent modifications and integrations. Applicable social security rules are art. n. 2, paragraph 26 and following paragraphs of the Italian Law n. 335/1995 and subsequent modifications and integrations. Applicable rules for obligatory maternity leave are provided in the Decree of the Italian Ministry of Labour and Social Security dated 12 July 2007, published in the "Gazzetta Ufficiale" n. 247, October 23rd 2007. Applicable rules for sick leave are provided by art. n. 1, paragraph n. 788 of Italian law n. 296, December 27 2006, and subsequent modifications.

During the period of obligatory maternity leave, the allowance paid by INPS (Italian National Institute for Social Security) according to art. n. 5 of the above Decree dated 12 July 2007 is supplemented by INAF up to the total amount of the fellowship. The period of obligatory maternity leave will not contribute to the duration of the fellowship foreseen by the contract.

Art. 8 - Selection Committee and selection procedure

The selection will be performed by a Selection Committee appointed by the Director of INAF/OABO and is composed of three members, including the scientist in charge of the project. The selection is based on qualification and possible interview. The Selection Committee can establish a short list of the eligible applicants to be interviewed, on the basis of titles and qualification and documented experience in the scientific or technological activities on the specific subject of the research fellowship. If approved by all members of the Committee, the interviews can be performed via videoconference, to ease the procedure for foreign candidate and reduce costs. Applicants selected for the interview will be summoned with 15 days notice.

The total ranking score is 100 points: a maximum of 70 for titles and qualifications, and a maximum of 30 for the interview. At the conclusion of the selection procedure the Selection Committee will produce a ranked list.

The ranked list of the selection procedure will be published on INAF/OABO web site: <http://www.bo.astro.it/>.

Art. 9 - Awarding of the fellowship

The highest-ranked candidate will receive a written notification with an offer of the research fellowship, which will be anticipated by e-mail to assure a speedy process. Within 10 days from receipt of the formal notification of the award she/he must provide a formal declaration of acceptance of the fellowship, or of withdrawal. The declaration can also be anticipated by electronic



mail. In case no declaration is received, the candidate is considered as withdrawn and thus excluded. The committee can then move down the ranking and repeat the procedure with the second-ranked candidate, and so on, until the fellowship is accepted.

Under no circumstances the signing of the contract starts a subordinate employment relationship or ensures any rights to access to permanent INAF staff positions.

Art. 10 - Starting date and fellowship obligations

The contract is expected to start within the first quarter of 2014. The holder of the fellowship:

- will start the research activity on due date, as for the contract with INAF/OA-Bologna, unless prevented by force majeure or exceptional circumstances, of which the Director of INAF - Bologna must be timely informed;
- will carry out her/his research activities under the supervision of the Principal Investigator of the project, Dr. Eros Vanzella, who will also monitor the fellow's progress;
- is required to issue periodical activity reports as established in the contract. The activity reports will be subject to approval by the project supervisor. Approval failing, duly justified by the supervisor, will give INAF – OA Bologna the right to terminate the contract;
- is required to send a written note in case of withdrawal, with at least 30 days notice, otherwise INAF/OA-Bologna will be entitled to retain or request the reimbursement of the salary amount corresponding to the notice time-span she/he has failed to send.

The holder of the fellowship who fails in carrying out her/his regular research activity, without producing justified reasons or lacks repeatedly to fulfill requirements or, according to the evaluation of the scientist in charge, eventually shows evident lack of skills at the planned research activities, will incur in the termination of the contract.

Temporary suspensions of the research fellowship are due in case of obligatory maternity leave or in case of illness lasting longer than one month or to any other serious reason. The reasons for suspending the research fellowship must be proved and certified, and promptly sent to the Director of INAF/OA-Bologna.

Art. 11 - Personal Data

In accordance with art. 13, paragraph 1 of the Italian Legislative Decree n. 196/2003 and subsequent modifications, personal data provided by the candidates will be used exclusively for the purposes of this selection. Candidates wishing to obtain further information, or to exercise their rights under art. 7 of the above mentioned Legislative Decree, may contact the Responsible for the administration of this call.

Art. 12 - Responsible Employee

The Responsible Person for this Job announcement processing is Dr. Eros Vanzella.

Art. 13 - Applicable regulation

INAF/OA-Bologna shall abide by provisions in force promoting equal opportunities for women and men, non-discrimination and respect of privacy in processing personal data.

For what not explicitly mentioned in this announcement, INAF/OA-Bologna shall act in compliance with the regulations in force concerning Italian public selection procedures, when applicable by analogy.



**ISTITUTO NAZIONALE DI ASTROFISICA
NATIONAL INSTITUTE FOR ASTROPHYSICS**

OSSERVATORIO ASTRONOMICO DI BOLOGNA




The present call will also be published, according with art. 8 of INAF rules and regulations on “Assegni di Ricerca”, on the INAF/OA-Bologna website:

<http://www.bo.astro.it/>

and on the INAF website:

<http://www.inaf.it>.

Bologna, October 23, 2013

The Director
D. Giovanni ZAMORANI

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