



*Decree n. 42/14*

*Public selection procedure based on qualifications and possible interview for the awarding of one research fellowship of the duration of 1 year, renewable, titled: “**Modelling and analysis of chromospheric solar flares**”, Category: A/Post-Doc (in accordance with Article 22 of Law 240/2010 and Grant Agreement n. 606862 F-CHROMA) CUP C18C13000290006*

### **THE DIRECTOR OF INAF - ASTRONOMICAL OBSERVATORY OF CAPODIMONTE**

- Having seen** the Statute of the Istituto Nazionale di Astrofisica (INAF), adopted by INAF Administrative Council on 7 March 2011 and come into force on 1 May 2011;
- In accordance with** Italian Law n. 240 dated 30 December 2010, Article 22;
- Having seen** the INAF Regulations for awarding research fellowships, approved by INAF Administrative Council on 22 June 2011, Resolution n. 44/2011, and their subsequent modifications and integrations;
- Considering** it appropriate to issue an announcement of competition for the award of a research fellowship;
- Verified** the availability of finance form fund CRAM 1.05.02.94FP7 CHROMA CUP C18C13000290006 chapter 1.05.08, of the 2014 INAF budget;

### **DECREES**

#### **Art. 1 – Research project**

A public selection based on titles and qualifications, possibly integrated by an interview, is open to award one research fellowship funded under the EU-FP7 project “F-CHROMA: Flare Chromospheres: Observations, Models and Archives” (hereinafter referred to as “F-CHROMA”), Grant Agreement n. 606862, titled “**Modelling and analysis of chromospheric solar flares**”, category: A/Post-Doc.

Within the F-CHROMA project, the person awarded with the fellowship is expected to carry out the following activities:

- a) Calculation of time evolution of chromospheric flare radiation through radiation hydrodynamic simulations with parametrized energy input;
- b) Analysis and interpretation of multi-wavelength observations of chromospheric solar flares.

The successful applicant will carry out research activity under the supervision of Dr. Vincenzo Andretta, in collaboration with other members of the F-CHROMA research team, both in Italy and abroad. Frequent visits to the host institutes of other F-CHROMA research teams may be required under such collaborations.

### **Art. 2 – Admission requirements**

In order to participate in the selection, applicants must possess, on pain of exclusion, the following requirements:

- Ph.D. degree in Astronomy or Physics awarded by an Italian or a foreign University;
- or:
- degree in Astronomy or Physics which would formally entitle to the admission to a doctorate, awarded by an Italian or foreign University, together with at least three years of documented experience in scientific activities.

A good knowledge of the English language is also required.

The following knowledge, skills and experience will be considered as preferential qualifications:

- Research experience in radiation hydrodynamics simulations in astrophysical contexts;
- research experience in solar physics, with emphasis on the analysis of multi-wavelength observations acquired with state-of-the-art ground-based and space-born instrumentation;
- knowledge of Fortran and IDL programming languages, including experience with the IDL SolarSoft software library;
- independent and collaborative research skills.

### **Art. 3 – Application procedure**

Application must be submitted in English in a sealed envelope by “Raccomandata A/R” (certified mail with return receipt), or by authorized carrier (ex. DHL, FedEx, UPS, etc.), or in person at the Protocol Office to the address:

INAF-Osservatorio Astronomico di Capodimonte  
Salita Moiarriello 16  
80131 Napoli  
Italy.

Alternatively, applications can be submitted using PEC (“Posta Elettronica Certificata”: certified e-mail, **not** ordinary e-mail) to the following PEC address:

[inafoanapoli@pcert.postecert.it](mailto:inafoanapoli@pcert.postecert.it)

Applications must be received by and no later than **12:00 (CEST) on August 7, 2014**. Late deliveries will not be considered.

Applications which are not complete or are not consistent with the attached forms (Annexes 1, 2), or are without the applicant’s signatures will be excluded from the selection procedure.

The application must be delivered reporting on the envelope or in the subject of the PEC (“Posta Elettronica Certificata”): **“Application for F-CHROMA Postdoctoral Fellowship position at INAF - Capodimonte – D.D. n. 42/2014”**.

The applicant, being aware that false declarations are punishable by law and that the Administration will carry out random checks on their accuracy, must state clearly and precisely in the application, under his/her own responsibility:

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

**Applications lacking any of the above mentioned declarations will be considered incomplete and therefore excluded from the selection procedure.**

For selection purposes:

- the applicant shall explicitly state her/his academic qualifications in the application form (Annex 1);

in addition and if applicable:

- the applicant must produce originals or suitably certified copies of academic qualifications obtained outside Italy.

In the application, the following documents must be submitted:

- Annex 1 “Application form”;
- Annex 2 “Self-executed certificate and self-executed affidavit”;
- a copy of a valid identity document (ID card or passport);
- “Curriculum vitae”, signed and dated by the applicant, providing evidence of possession of the skills required to carry out the research and including a list, if applicable, of grants and fellowships held in the past;
- list of publications;
- any document demonstrating other qualifications, working tasks, research activity at public and private institutions, and any publication that the applicant deems appropriate to submit;
- a copy of the certificate or diploma for the degree required by Article 2 of the Call for applications for this research fellowship, if obtained outside Italy.

Applicants are admitted for selection with reservation and may – at any time – be notified of exclusion from the selection procedure for the following reasons:

- delivery of the application after the deadline;
- failure to complete and sign the application form;
- failure to sign the curriculum vitae;
- lack of the copy of a valid identity document;
- lack of the requirements described in Article 2 of this Call.

Should the reasons for exclusion be ascertained after completion of the selection procedure, the applicant will lose any right deriving from participation in the selection procedure; similar loss will be applied to applicants providing any false statement or document.

INAF accepts no responsibility for lost applications or documents due to wrong or delayed delivery or in case this is due to the applicant having provided incorrect contact details or having failed or delayed in notifying any changes to those details.

#### **Art. 4 – Ineligibility and incompatibility**

Full professors, associate professors and “ricercatori” in Italian universities and employees of Italian research public institutions are all excluded from entering the competition.

The grant cannot be held at the same time with attendance at academic courses as those that formally give access to a doctorate, as well as with attendance at Ph.D. courses covered by a grant.

The grant cannot be held simultaneously with other fellowships of whatever kind, except those awarded with the aim of integrating the training or research activity of the assignee through a period spent abroad.

Aggregation of income from working activities, even part-time, carried out continuously is not accepted. Limited self-employed occasional work is instead compatible with the grant, but only if this is not prejudicial to the research activity carried out for INAF. This work must be authorized in advance by the Director of INAF- Osservatorio Astronomico di Capodimonte.

Retired persons are not eligible for the research fellowship.

Also excluded from participation are any person who has 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 grant 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 expected to begin on 1 October 2014 or as soon as possible thereafter, for a period of 12 months.

An extension of the fellowship may be possible depending on performance and on funding availability. In accordance with Italian Law n. 240/2011 the duration of the fellowship, inclusive of possible renewal, will not exceed four years, excluding periods of maternity leave or sick leave, in accordance with current legislation.

In any case (i.e. regardless of the starting date) the fellowship will end no later than 31 December 2016, which is the date of completion of the F-CHROMA project.

#### **Art. 6 – Host Institution**

The assignee will carry out the research at INAF - Osservatorio Astronomico di Capodimonte – Salita Moiariello 16 – 80131 Napoli (Italy).

Depending on the needs of the research project – as determined by the scientist in charge of the project, Dr. Vincenzo Andretta – the assignee may be required to carry out part of its research activity at other Italian or foreign research institutions. INAF rules and regulations for out-of-site travel apply in this case. At first, until new rules and regulations are approved, the remuneration for out-of-site travel will correspond to the treatment for the professional III level profile, “ricercatore/tecnologo”.

#### **Art. 7 – Salary amount**

The gross annual salary will be 32.000,00 (Thirty-two thousand/00) Euros. This amount is net of burdens to be charged to INAF - Capodimonte, social charges and health coverage, and will be paid in deferred monthly instalments.

Italian fiscal and social security rules will be applied. During the period of obligatory maternity leave the allowance paid by INPS (Italian National Institute for Social Security) is supplemented by

INAF up to the total amount of the grant. The period of obligatory maternity leave will not contribute to the duration of the grant 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-Osservatorio Astronomico di Capodimonte and is composed of three members, including the scientist in charge of the project, Dr. Vincenzo Andretta.

The selection is based on the evaluation of qualifications possibly integrated by an interview. The Selection Committee can establish a short list of the eligible applicants to be interviewed, on the basis of qualifications and documented experience in scientific activities on the specific subject of the research fellowship. All the stages of the selection procedure (e.g. meetings of the Selection Committee, interviews and so on) can also be performed using electronic communication devices. Applicants selected for the interview will be summoned with a 15 day notice by telegram or certified e-mail (PEC); the notice will contain the individual score after the evaluation of qualifications.

The total maximum ranking score is 100 points, of which 70 points is the maximum score for qualifications and 30 points is the maximum score for the interview. At the end of the selection procedure the Selection Committee will draw up the ranked list.

The ranked list will be published on the INAF – Capodimonte website: <http://www.na.astro.it>.

### **Art. 9 – Awarding of the fellowship**

The highest ranked candidate will receive written notification of award of the research fellowship, which will be anticipated by e-mail to ensure a rapid process.

Within 10 days from receipt of the formal notification of the award, the candidate must provide a formal declaration of acceptance of the research grant. The declaration shall also contain the statement that she/he is not subject to any of the exclusion conditions described in Article 4 of this Call. The declaration can be anticipated by electronic mail.

If the candidate does not provide a declaration of acceptance within the time limit specified above, she/he will surrender her/his entitlement to the research fellowship, which can then be awarded to the next ranked candidate.

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 – Fellowship obligations**

The assignee has the following obligations:

- a) She/he will start the research activity at INAF- Osservatorio Astronomico di Capodimonte at the due date as specified by the contract, unless prevented by force majeure or exceptional circumstances, of which the Director of INAF- Osservatorio Astronomico di Capodimonte must be timely informed.
- b) She/he will carry out her/his research activities under the supervision of the INAF scientist in charge of the F-CHROMA project at INAF - Capodimonte, Dr. Vincenzo Andretta, who will also monitor the research fellow's progress.
- c) She/he is required to issue an activity reports when requested by the Director and in any case at the end of the first year. The activity reports will be subject to approval from the scientist in charge of the project and will be transmitted to the Director of INAF - Capodimonte.

Approval failing, duly reasoned by the scientist in charge, will give INAF - Capodimonte the right to terminate the contract.

- d) She/he is required to send a written note in case of withdrawal, with at least 30 days notice, otherwise INAF - Capodimonte is entitled to retain or request the reimbursement of the salary amount corresponding to the notice time-span she/he has failed to send.

The assignee of the fellowship who does not regularly carry out her/his research activity without justification, or repeatedly fails to fulfil requirements, or, according to the evaluation of the local coordinator of the F-CHROMA activities, Dr. Vincenzo Andretta, eventually shows evident lack of skills in the planned research activities, will incur the termination of the contract.

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

### **Art. 11 – Person Responsible for the Call Proceedings**

The person responsible for this Call proceedings is Mrs. Rossella Cesaro (e-mail: [cesaro@na.astro.it](mailto:cesaro@na.astro.it)).

### **Art. 12 – Applicable regulation**

The INAF-Osservatorio Astronomico di Capodimonte 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, the INAF- Osservatorio Astronomico di Capodimonte shall act in compliance with the regulations in force concerning Italian public selection procedures, when applicable by analogy.

The present call will also be published, according with Art. 8 of INAF rules and regulations on "Assegni di Ricerca", on the INAF- Osservatorio Astronomico di Capodimonte website <http://www.na.astro.it> and on the INAF website: <http://www.inaf.it>.

Naples, July 7, 2014

Prof. Massimo Della Valle

**ANNEX 1: APPLICATION FORM**

To:

INAF - Osservatorio Astronomico di Capodimonte  
Salita Moiarriello, 16  
80131 Napoli  
Italy

I, THE UNDERSIGNED,

(Forename(s))..... (Surname) .....

Place of birth (Town/State): .....

Date of birth (dd/mm/yy): .....

Tax code:.....

Nationality: .....

Gender: .....

Permanent residence address (number/street/town/postal code/country):  
.....

Email address: .....

agree to the processing of my personal data, in accordance with Italian Leg. Decree n. 196/2003, for the purposes of the present selection procedure.

I, THE UNDERSIGNED,

having read the Call for applications D.D 17/2014 for the appointment of one research fellowship titled: “**Modelling and analysis of chromospheric solar flares**”,

**REQUEST**

to apply for the above mentioned fellowship, and to this end, aware that false declarations are punishable by law under Art. 76 of Italian Presidential Decree n. 445/2000 and that this Administration will carry out random checks on the accuracy of the declarations made by candidates,

**DECLARE**

under my own responsibility and in accordance with Articles 46 and 47 of Italian Presidential Decree 445/2000:

a) that I hold the following Research Doctorate (Ph.D.) ..... awarded by ..... on (date)..... Title of thesis: .....

(or, alternatively:)

a) that I hold the following educational qualifications: ....., awarded by..... on (date).....;

b) that I have a good level of knowledge of the English language;

c) that I have ..... years of documented experience in scientific or technological activities;

d) that I am aware of the restrictions described in Article 4 of the Call for applications for this research fellowship, and that I am not ineligible because of any of said restrictions;

e) that I have never received a research award as per Art. 22, Italian Law 240/2010;



(or alternatively:)

e) that I have previously received research awards as per Art. 22 of Italian Law 240/2010 and, in particular I have been the recipient of<sup>1</sup>:

a research fellowship titled .....,  
at (name of the institution).....,  
beginning....., ending....., total months .....

a research fellowship titled .....,  
at (name of the institution).....,  
beginning....., ending....., total months .....

a research fellowship titled .....,  
at (name of the institution).....,  
beginning....., ending....., total months .....

f) that I am not a retired person;

g) that I am aware that, under Art. 22 of Italian Law 240/2010, the research fellowship:

a) cannot be held simultaneously with attendance at academic courses, “laurea specialistica” academic courses, and “laurea magistrale” academic courses, as well as with attendance at Ph.D. courses covered by a grant;

b) cannot be held simultaneously with other fellowships of whatever kind, except those awarded with the aim of integrating the training or research activity of the assignee during a period spent abroad;

c) does not permit aggregation of income from working activities, even part-time, carried out continuously.

h) that I wish to receive any communication relating to the selection at the following address and that I will give due notice of any change of address:

(number/street/town/postal code/country)

.....

Email address: .....

I am attaching to this form:

- Annex 2 “Self-executed certificate and self-executed affidavit”;
- a copy of a valid identity document (ID card or passport);
- signed and dated “Curriculum vitae”, providing evidence of possession of the skills required to carry out the research and (if applicable) including a list of grants and fellowships held in the past;
- list of publications;
- (any document demonstrating other qualification, working tasks, research activity at public and private institutions, and any publication that the applicant deems appropriate to submit);
- a copy of the certificate or diploma for the degree required by Article 2 of the Call for applications for this research fellowship (if obtained outside Italy).

Date

Signature

\_\_\_\_\_

\_\_\_\_\_

<sup>1</sup> Please Indicate the number of months actually spent on each fellowship and the name of the institution granting the award. Please provide details on each award; for example, if you have been the recipient of two awards of 24 months each at the same institution, indicate these as two separate awards on two different lines.



**ANNEX 2**  
**SELF-EXECUTED CERTIFICATE AND SELF-EXECUTED AFFIDAVIT**

I, THE UNDERSIGNED,

(Forename(s))..... (Surname) .....

Place of birth (Town/State): .....

Date of birth (dd/mm/yy): .....

Tax code:.....

Nationality: .....

Permanent residence address (number/street/town/postal code/country):  
..... ,

being aware that false declarations are punishable by law under Article 76 of Presidential Decree no. 445 of 28 December 2000, and that this Administration will carry out random checks on the accuracy of the declarations made by candidates

DECLARE UNDER MY OWN RESPONSIBILITY

and in accordance with Articles 46-47 of Presidential Decree no. 445 of 28 December 2000:

- that the content of the attached “curriculum vitae” is true;
- that the following attached copies of documents:
  - a) (if applicable) copy of the foreign Ph.D. certificate or of the foreign academic qualification;
  - b) (list of all other attached documents)are true to the originals.

Date

Signature

\_\_\_\_\_

\_\_\_\_\_