

Bando 2023-17-AR

Subject: Selection procedure by qualifications and interview for the assignment of one research grant, of the duration of one year, based on projects CUSP, SWIPE, PRIN MIUR 2020 Hype-X, IXPE, eXTP and HERMES.

**NATIONAL INSTITUTE FOR ASTROPHYSICS
INSTITUTE FOR SPACE ASTROPHYSICS AND PLANETOLOGY**

The Director

- **In accordance with** Italian Law n. 476, dated 13 August 1984, and subsequent modifications and integrations, containing some “*Rules concerning Scholarships and PhD Fellowships in Universities*”, and, in particular, article 4;
- **In accordance with** the Statute of the Istituto Nazionale di Astrofisica (INAF), adopted by INAF Board on March 7th, 2011, and entered into force on May 1st, 2011 and subsequent modifications and integrations;
- **In accordance with** INAF organization and functioning Regulation, approved with resolution n. 44/2012 by INAF Administrative Board on 21 June 2012 and become active on 21 July 2012, and subsequent modifications and integrations;
- **In accordance with** INAF Personnel Regulation, approved with resolution n. 23/2015 by INAF Administrative Board on 11 May 2015, published on G.U.R.I. “Serie Generale” n. 253 on 30 October 2015, and adopted on 1 November 2015;
- **In accordance with** Italian Law n. 240, of 30 December 2010, Article 22 on the awarding of research fellowships, and subsequent modifications and integrations;
- **In accordance with** the INAF Regulations for the awarding of research fellowship approved by INAF Administrative Board on 22 June 2011 and adopted on 1 July 2011, and subsequent modifications and integrations;
- **In accordance with** the resolution n. 177 of INAF Administrative Board dated 30 December 2021 appointing Dr. Marco Feroci as Director of IAPS for three years starting from 01 January 2022;
- **In accordance with** Italian Law n. 11, of 27 February 2015, Article 6, which extends the overall duration of research grants “asegni di ricerca”;
- **In accordance with** the note of INAF Scientific Directorate prot. n. 673/2018;
- **In accordance with** the guidelines for the awarding of research fellowship approved by INAF Administrative Board on 23 March 2018;
- **In accordance with** the guidelines regarding the recruitment of temporary personnel, approved by INAF Board on 29 January 2019;
- **In accordance with** Italian Law n. 196 of 30 June 2003 and subsequent modifications and integrations, containing the “Personal Data Protection Code”;
- **In accordance with** the Presidential Decree n. 68 of 11 February 2005, containing the “Regulation for the use of certified electronic mail, under Article 27 of Italian Law n.3 of 16 January 2003;
- **In accordance with** Italian Law n. 82 of 7 March 2005 and subsequent modifications and integrations, containing the “Digital Administration Code”;
- **In accordance with** the Decree of the President of Italian Republic n. 189, dated 30 July 2009, issuing the “*Regulation concerning the recognition of academic qualifications, under article 5 of Italian Law n. 148 dated 11 July 2002*” and, in particular, article 4, that:
 - in comma 1, provides that:
 - for “...the recognition of qualifications for the purposes referred to in comma 2, 3, and 4, the administrations concerned send the documentation referred to in article 3, comma 2, letters a) or b, to Ministry ...”;

- within “...sixty days after receipt of applications, the Ministry send its reasoned opinion to the competent administration, that adopts the recognition provision...”
- the “...provision is communicated to the person concerned and to the Ministry...”
- in comma 2, that “...the evaluation of qualifications, for the participation to the selection procedures for the awarding of Scholarships and other benefits, resulting from the possession of those qualifications, issued or recognized by public administration, falls within the competence of the administration concerned, after obtaining the opinion of the Ministry...”;
- **Given** that the Minister of University and Research, in his interpretation of the rules contained in the Decree of the President of Italian Republic 189, dated 30 July 2009, has repeatedly clarified that the above-mentioned rules can be applied to research fellowships, assimilated for all intents to “...other benefits...” mentioned in article 4, comma 2, of the above-mentioned Decree;
- **In accordance with** Italian Law n. 183 of 12 November 2011 and in particular Article 15 concerning replacement declarations and certificates;
- **In accordance with** the Note of INAF Administrative Directorate prot. 82/DA dated 8 March 2002, containing clarifications on the awarding of research grants and fellowships by INAF Astronomical Observatories and subsequent modifications and integrations;
- **In accordance with** the Note of the Director of INAF Department of Research Structures prot. n. 472/07/AC/PI of 23 January 2007 containing indications about the publication of selection calls on INAF website;
- **In accordance with** MIUR Decree n. 102 of 9 March 2011, establishing the minimum grant for research fellowships;
- **In accordance with** INAF Regulations for the awarding of research fellowships approved by INAF Administrative Board with resolution n. 44/2011 on 22 June 2011 and adopted on 1 July 2011, after subsequent modifications by INAF Administrative Board resolutions n. 8/2011 of 13 October 2011 and n. 2/2012 of 10 January 2012;
- **In accordance with** Italian Conversion Law n. 11 of 27 February 2015 and subsequent modifications of Italian Law n. 192 of 31 December 2014 containing: “Extension of the time limits established by legal provisions” and in particular art. 6 comma 2-bis stating that “The total duration of the working relationship established in accordance with art. 22, comma 3, of Italian Law n. 240 of 30 December 2010, is extended by two years”;
- **In accordance with** the Note of the Director of INAF Department of Research Structures prot. n.5974/2011 of 16 September 2011 having as its object “Publication of call for application for Research Fellowships”;
- **In accordance with** INAF Statute, approved by the Administrative Board with resolution n. 42 of 25 May 2018, and entered into force on 24 September 2018;
- **In accordance with** the “Guidelines for the awarding of research fellowships” approved by INAF Board on 29 January 2019;
- **In accordance with** the Guidelines for the awarding of Research Fellowships, approved by the INAF Board on 29 January 2019, according to which INAF can award research fellowships, in line with art. 22 comma 1 of the Italian Law n. 240 of 30 December 2010, based on the following types:
 - Research Training Fellowship ranging from 20.000 to 26.000 Euros;
 - Postdoctoral Research Fellowship ranging from 28.000 to 32.000 Euros;
 - Young Researcher Fellowship ranging from 34.000 to 38.000 Euros;
 - Special Research Fellowship ranging from 20.000 to 38.000 Euros;
- **In accordance with** the Resolution of INAF Board dated 29 January 2019, n.8, which approved several “**Modifications of the Guidelines for the awarding of research fellowships**”;
- **Given** that in particular, article 1, comma 5, of the above-mentioned “Guidelines” provides that:
 - the “...awarding of “**Research Fellowships**” is implemented through selection procedures with dedicated calls...”;
 - “selection procedures could be national or local...”;
 - in case of “...national calls, candidates should present a research project together with an endorsement letter by the Director of the Research Institute where they plan to accomplish the research activity...”;

- *the “...project will be evaluated by the selection board, together with the scientific-professional curriculum vitae and the qualifications provided by the candidate...”*;
- **In accordance with** the resolution of INAF Board n. 83/2018 dated 18 September 2018 regarding the “Approval of the “Report” by INAF President specifying a “National Program for Research Fellowships” and in particular the paragraph entitled “Proposals for the revision of the defining criteria of the research fellowship program”;
- **In accordance with** the Note prot. 6023, Tit. III – cl. 3, by INAF Scientific Director having as its object “Urgent call for the consideration of the contents and dispositions of the resolution n. 83/2018 concerning the awarding of research fellowships”;
- **In accordance with** the Decree of the Minister of Education, University and Research of 30 December 2019, number 1201:
 - Professor Nicolò D’AMICO has been appointed President of the "National Institute of Astrophysics", starting from 30 December 2019 and for a period of four years;
 - Professor Stefano BORGANI and Ms Maria Cristina DE SANCTIS were appointed members of the Board of Directors for the same period;
- **In accordance with** the Decree of the Minister of Education, University and Research dated January 31, 2020, number 32, Engineer Stefano GIOVANNINI and Dr. Grazia Maria Gloria UMANA were appointed as Members of the Board of Directors starting from January 31, 2020 and for the duration of four years; in the meeting of February 3, 2020, the Board of Directors took office in its full composition;
- **Given** the Resolution of February 3, 2020, number 6;
- **Given** the individual fixed-term employment contract under private law of March 9, 2020, repertory number 1, with which, in compliance with the provisions of the Board of Directors with Resolution of February 3, 2020, number 6, it was again conferred to the Doctor Gaetano TELESIO the position of Director General of the "National Institute of Astrophysics" for a duration coinciding with that of the President's mandate, except in cases of early termination of the same expressly provided for by the current legislative and statutory provisions;
- **Considering** therefore, that the position of Director General of the "National Institute of Astrophysics" conferred on Doctor Gaetano TELESIO will expire on 30 December 2023;
- **Given** the individual fixed-term employment contract under private law of 18 March 2020, repertory number 2, with which, in compliance with the provisions of the Board of Directors with Resolution of 3 February 2020, number 6, it was again conferred to the Doctor Filippo Maria ZERBI the position of Scientific Director of the "National Institute of Astrophysics" for a duration coinciding with that of the mandate of the President, except in cases of early termination of the same expressly provided for by the current legislative and statutory provisions;
- **Considering** therefore, that the position of Scientific Director of the "National Institute of Astrophysics" conferred on Doctor Filippo Maria ZERBI will expire on 30 December 2023;
- **Given** the Resolution of the Board of Directors of 5 June 2020, number 54, with which the "Rules for the rationalization of the procedures for the recruitment of personnel with fixed-term employment relationships and for the award of checks for the performance of research activity”;
- **Given** the Resolution of 27 September 2019, number 322, with which the Director General of the National Institute of Astrophysics, Dr. Gaetano TELESIO, has appointed Dr. Fabrizio Capaccioni as Director of the "Institute of Astrophysics and Space Planetology" for the duration of three years starting from 1 October 2019;
- **Considering** also that, on 14 September 2020, Professor Nicolò D’AMICO ceased, for natural reasons, from the office of President of the "National Institute of Astrophysics", which had been conferred on him by Decree of the Minister of Education, University and Research of 30 December 2019, number 1201, as mentioned above;
- **Given** the Decree of the Minister of University and Research of 9 October 2020, number 772, with which Doctor Marco TAVANI was appointed President of the "National Institute of Astrophysics", starting from 9 October 2020 and "... for the remaining duration of the mandate conferred on Professor Nicolò D’AMICO with Ministerial Decree of 30 December 2019, number 1201... ", or until 30 December 2023;

- **Given** the Resolution of October 29, 2020, number 81, by which the Board of Directors has:
 - confirmed the "... positions of Director General and Scientific Director of the" National Institute of Astrophysics ", respectively conferred to Doctors Gaetano TELESIO and Filippo Maria Zerbi with the Resolution of February 6, 2020, number 6, and with the individual employment contracts to fixed-term contract under private law of March 9, 2020, repertory number 1, and March 18, 2020, repertory number 2, until their natural expiry, or until December 30, 2023 ... ";
 - provided that "... all the provisions contained both in the Resolution and in the individual employment contracts referred to in the introduction and in the previous article 1 remain valid, with specific regard to the legal status, the remuneration and the discipline of the employment relationship ...";
- **In accordance with** the resolution of INAF Administrative Board n. 127 dated 29 December 2022 regarding the approval of the Annual Budget of INAF for the financial year 2023;
- **In accordance with** the resolution of INAF Board dated 15 May 2020 and the implementation note of INAF Directorate General prot. n. 2491 dated 16 May 2020 regarding the "Adoption of the regulation for the rationalization of temporary personnel recruitment and for the awarding of research fellowships and regulation of the transitional regime" specifying that the present selection procedure is simultaneously aimed at:
 - *offering an opportunity of professional growth to young people with a Ph.D. degree, to researcher fellows and to temporary workers, who want to experience the national and international circuit of research, in a perspective of rotation and mobility, that is acquire specific expertise in the context of temporary projects and/or activities;*
 - *holding positions beyond the planning of permanent staff needs and that, consequently, do not constitute any binding assumption for the placing in INAF permanent positions";*
- **In accordance with** the resolution of INAF Board dated 5 June 2020, no. 54, which approved the "Regulation for the rationalization of temporary personnel recruitment and for the awarding of research fellowships";
- **In accordance with** Italian Law n. 14, dated 24 February 2023, converted with modifications from Decree-Law n. 198, dated 29 December 2022 (aka Decreto Milleproroghe), containing "*Urgent rules concerning legislative terms. Extensions of time-limits for the exercise of legislative delegations*", and, in particular, Article 6, regarding the "*extensions of time-limits in the matter of university and research*";
- **In accordance with** the request by dr. Sergio Fabiani, Scientific Coordinator of the activities related to this Call for the project "CUSP";
- **Ascertained the financial** coverage with the funds of the projects:
 - "CUBesat Solar Polarimeter", allocated in balance Funzione Obiettivo 1.05.04.03.40;
 - "Partecipazione italiana alla missione IXPE della NASA – realizzazione e test dell'Instrument System e supporto per la Fase E", allocated in balance Funzione Obiettivo 1.05.04.03.33;
 - "The Compton polarimeter on board the Soft-X and gamma-ray WIDE-field Polarimeter Explorer", allocated in balance Funzione Obiettivo 1.05.12.01.14;
 - "Hype-X – PRIN MIUR 2020", allocated in balance Funzione Obiettivo 1.05.01.82.03;
 - "Partecipazione italiana alla missione IXPE della NASA", allocated in balance Funzione Obiettivo 1.05.04.03.33;
 - "Missione cinese eXTP", allocated in balance Funzione Obiettivo 1.05.04.03.35;
 - "HERMES Technological Pathfinder", allocated in balance Funzione obiettivo 1.05.04.03.21,

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Art. 1- Research Project

A call is open for a selection procedure on the basis of candidates' qualifications, possibly integrated by an interview, for the assignment of one "Post-doctoral research grant", of the duration of one year, entitled:

“Simulation and data analysis for the development of experiments for X and Gamma Ray Astronomy from space”, based on projects “CUSP, SWIPE, PRIN MIUR 2020 Hype-X, IXPE, eXTP and HERMES”.

Research will be carried at INAF-Institute for Space Astrophysics and Planetology. The successful candidate will work in collaboration with staff of the projects “CUSP, SWIPE, PRIN MIUR 2020 Hype-X, IXPE, eXTP and HERMES”.

The selected candidate will work on the following topics:

- study for the development of detectors for X/gamma rays, in particular related to the measurement of polarization in X-rays by means of Compton scattering;
- development of simulation software based on the GEANT 4 of X/gamma ray detectors and analysis of the simulated data;
- data analysis from test measurements and characterization of X/gamma ray detectors;
- sensitivity estimates of X/gamma ray detectors with particular interest to the observation of the solar flares in the X-rays;
- test campaigns at Italian and foreign facilities (e.g., data analysis of irradiation test for the assessment of radiation damage).

The Research Grant, aimed at the specified project, is not thought to satisfy the personnel needs of the Institute or of the project itself, but offers the opportunity of carrying out research activities in the framework of the project to candidates who believe that it can be important for their professional growth.

It is specified that the present selection procedure is simultaneously aimed at:

- *offering an opportunity of professional growth to young people who hold the requirements for the present selection, who want to experience the national and international circuit of research, in a perspective of rotation and mobility, that is acquire specific expertise in the context of temporary projects and/or activities;*
- *holding positions beyond the planning of permanent staff needs and that, consequently, do not constitute any binding assumption for the placing in INAF permanent.*

Art. 2 – Requirements for participation

Participation to the selection is reserved to Italian and foreign citizens holding the following minimum requirements:

- Ph.D. in Astronomy, or Astrophysics, or Physics, or Electronics Engineering, or Aerospace Engineering or equivalent Ph.D. issued by an Italian (or foreign) Advanced Studies Institute or University,
or
- Master degree (or 2nd level Laurea degree, if issued by an Italian University) in Physics, or Sciences of the Universe, or Electronic Engineering, or Aerospace Engineering, or Mathematics or equivalent degree issued according to the previous or actual Italian University regulations which would formally entitle to the admission to a doctorate awarded by an Italian university or by a foreign university, together with at least three years of documented experience in scientific or technological activities related to this call, obtained after the degree.

A good knowledge of English is required.

Exclusively for the admission to the present selection procedure, the equivalence of the qualifications obtained in foreign countries will be assessed by the “**Selection Board**” referred to in the following article 8, on the basis of the documentation presented by the candidate, provided that, in case the same candidate is selected, the Administration, basing on the results of the assessment by the “**Selection Board**”, will send those results, together with the documentation referred to in article 3, comma 2, letter a) or b), of the Decree of the President of Italian Republic n. 189, dated 30 July 2009, and the candidate request, to the Ministry of University and Research, for obtaining the opinion provided for in article 4, comma 2, of the same Decree.

Outside the situations specifically mentioned in comma 2 and 3, of article 3 of the Decree of the President of Italian Republic n. 445, dated 28 December 2000, and subsequent modifications and integrations, citizens from non-EU Member States, who don't hold the residence permit or the temporary residence permit, under article 38 of the Legislative Decree n. 165, dated 30 March 2001, and subsequent modifications and integrations, must prove they hold the admission requirements through certificate or attestation issued by the competent authority of the foreign Country of origin, together with their translation into Italian certified by the Italian Consular Authority confirming their conformity with the original, following a warning on the legal consequences resulting from the production of false documents.

Candidates must hold all the requirements set in this call at the time of the expiry date fixed for the application to this selection procedure.

Art. 3 – Application

Applications must be submitted by one of the following modes:

- a) by certified e-mail addressed to the certified mailbox areaconcorsi.iaps@pec.it;
- b) for Italian and foreigner citizens who have not a certified mailbox (PEC), by ordinary email addressed to areaconcorsi.iaps@pec.it;
- c) by registered letter with acknowledgement of receipt or certified express courier addressed to: **IAPS - Istituto di Astrofisica e Planetologia Spaziali – Via Fosso del Cavaliere 100, 00133 Roma** (post marks do not count).

In case of application submission in the manner provided in points a) and b) of this article, attachments must be submitted in pdf format. The submission date will be certified by the IT system.

Applications received by ordinary or certified mailbox, whose holder is different from the applicant, will be considered inadmissible.

The applications must be delivered reporting on the envelope or in the e-mail subject the following sentence: **“Application selection 2023-17-AR”** – IAPS – Istituto di Astrofisica e Planetologia Spaziali – AREA CONCORSI. Applications must be received no later than 11:59 pm of **14 August, 2023**.

Applications which are not consistent with the attached forms (annexes 1 and 2) or without the applicant's signatures or not submitted in the manner provided for in the call will be excluded from the selection procedure.

Aware that false declarations are against the law and that the Administration will carry out random checks on their accuracy, the applicant under his/her own responsibility, must clearly and precisely state in the application the following:

- name(s) and surname, date and place of birth, nationality, place of residence and address for correspondence;
- that s/he satisfies all the requirements described in article 2 of this Call;
- that s/he 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.

For selection purposes the applicants shall directly state any academic qualifications in the application form (Annex 1).

In addition, non-EU citizens residing outside Italy, if successful, must produce originals or suitably certified copies of academic qualifications obtained outside Italy.

2 - The following documents have to be submitted:

1. annex 1 “Application form”;
2. annex 2 “Certification - Declaration in lieu of affidavit (Art. 19 - 46-47 the DPR 28th December 2000, n. 445)”;

3. “Curriculum vitae”, signed and dated by the applicant including a list, if applicable, of grants and fellowships held in the past or in progress;
4. copy of a valid identity document (ID card or passport);
5. list of publications;
6. any other qualification, working task, research activity for public and private institutions and publications consistent with the application;
7. the list of all submitted documents;
8. annex 3 “Interview Request In Video Conference”. For applicants residing abroad: you can make the possible interview remotely by means of a conference call audio and video (e.g. Skype or similar); The candidate who chooses this option must indicate this in the application and make an explicit request by filling out the appropriate form (request for interview Videoconference) and attach it to the application form, together with the front/back copy of a readable valid identity document.

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

- submission of the application after the deadline;
- incomplete and/or unsigned application form;
- unsigned curriculum vitae;
- missing copy of a valid identity document;
- non compliance the requirements indicated in paragraph 2.

Should the reasons for exclusion be determined 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 when the applicant provided incorrect contact details or failed or delayed in notifying any changes to these details.

Art. 4 - Ineligibility and incompatibility with other funding

Full professors, associate professors and researchers of Italian Universities and employees of Italian public research institutions are all excluded from entering the competition.

The grant is not compatible with the attendance of academic courses as those that formally give access to a doctorate, as well as with Ph.D. fellowships. For employees of the Italian Public Administration (Italian State) unpaid leave of absence is mandatory.

The grant is not compatible with other kinds of fellowships, except for those awarded with the aim of integrating the training or research activity of the fellowship holder with a period spent abroad.

Incomes from working activities, also part-time, carried out continuously are not allowed. On the contrary, limited self-employed occasional work is compatible with the grant, only if it does not affect the research activity and must be authorized in advance by the Director of INAF- Istituto di Astrofisica e Planetologia Spaziali (IAPS).

Retired persons are not eligible for Research fellowship.

Applications are not accepted from candidates who carried out research fellowships under article 22 of Italian Law 240/2010 and integrative for a total period indicated in the current law, including extensions, but excluding the concurrent periods of doctoral studies up to the legal duration of the course and excluding periods of maternity leave or sick leave, in accordance with current legislation. When formally accepting the grant, the successful candidate will provide a declaration of absence of inadmissible conditions.

Art. 5 – Duration of the Research grant

The grant will presumably start on November 2023. Its duration is for 1 year with possible extension depending on the positive evaluation of the scientific leader of the project and on funding availability, and in any case within the limits of Article 22 paragraph 3 of Law 240/2010 and subsequent amendments.

Art. 6 – Host Institution

The host institution of the grant is INAF-Institute for Space Astrophysics and Planetology. The successful candidate will have to travel on duty abroad.

Art. 7 – Salary amount

The annual gross salary of the grant is 32.000,00 Euros (thirty-two thousand euros) to be paid in deferred monthly payments. This amount does not include the burdens paid by INAF-Institute for Space Astrophysics and Planetology.

Applicable tax regulations are stated art. n. 4 of Italian law n. 476/1984 and subsequent modifications and integrations. Applicable social security rules are stated in art. n. 2, paragraph 26 and following paragraphs of the Italian law n. 335/1995 and subsequent modifications and integrations. Applicable regulations for mandatory maternity leave are provided in the Decree of the Ministry of Labour and Social Security dated 12 July 2007, published in the “Gazzetta Ufficiale” n. 247 dated 23 October 2007. Applicable regulations for sick leave are provided in art. n. 1, paragraph n. 788 of Italian law n. 296 dated 27 December 2006 and subsequent modifications. During the period of mandatory maternity leave the allowance paid by INPS (the Italian National Institute for Social Security) according to art. n. 5 of the above-mentioned Decree dated 12 July 2007 is integrated by INAF up to the total amount of the grant. The period of mandatory maternity leave will not contribute to the duration of the grant.

As for third party liability, the grant holder will be covered by insurance policy at the expense of INAF. This will not cover the civil liability of the grant holder towards INAF.

The grant holder must pay at his/her own expense an insurance policy against work related injuries.

Art. 8 – Selection Board and selection procedure

The selection of eligible candidates will be carried out by a Selection Board appointed by the Director of INAF-IAPS. The Selection Board is composed of 3 members, from both Italian and foreign research staff, including also University staff, with expertise in the research field of the position. According to the current regulation, the composition of the Selection Board should comply with gender balance. The president of the Selection Board is nominated in the appointment decree and is chosen among the Board members. The Selection Board Secretary is also appointed in the above-mentioned decree.

The selection is based on qualifications, possibly integrated with an interview.

Candidates must exhibit their identity documents in order to be admitted to the 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 or technological activities concerning the specific subject of the research fellowship.

All the activities of the selection procedure (e.g. meetings of the Selection Board, interviews...) can be carried out by using videoconference systems.

Applicants selected for the interview will be formally notified 15 days in advance by e-mail with acknowledgement of receipt, containing the individual evaluation score.

In case of an oral interview, this will focus on the topics specified below, relating to the sector of activity for which the selection is announced and the specific activities in the art. 1 of this announcement:

- design of detectors for X/gamma rays, with particular reference to the use of Compton scattering;
- X-ray/gamma detector simulation based on the GEANT 4;
- use of real and simulated data analysis software (e.g., python, SunPy, SolarSoft) from laboratory and/or flight instrumentation;
- knowledge of solar physics, with particular reference to the physics of solar flares.

The selected candidates who miss the interview will be excluded from the competition.

The qualifications that can be assessed are the following:

- a) publications of a technical-scientific nature relating to the specific sector of activity for which the selection is announced (for a maximum of 20 out of 60 points) that include: peer-reviewed publications, non-peer-reviewed, proceedings, technical notes and technical reports;

- b) curriculum vitae et studiorum (for a maximum of 30 out of 60 points) that allows to establish the relevance of the course of study and research/job with respect to the topic of this selection;
- c) other qualifications that can be evaluated (courses, certifications, awards, fellowships, grants, talks at workshop meetings/seminars, teaching, for a maximum of 10 out of 60 points).

The total ranking score is 100 points, of which 60 points is the maximum score for qualifications and 40 points is the maximum score for the interview. The minimum score in order to access the possible interview is 42/60. The candidates who obtain, in the same test, a score of at least 28/40 will pass the oral examination.

At the end of the selection process the selection board will draw up a ranked list based on the sum of the scores obtained both in the qualifications evaluation and the interview.

For candidates with the same score on the ranked list, preference will be given to the younger candidate. The approval decree of the selection procedure and the ranked list will be published on the following website: <http://www.iaps.inaf.it/work-with-us/>

Art. 9 – Awarding of the fellowship

The highest ranked candidate will receive written notification of award of the research grant.

Within 7 days from receipt of the formal notification of the award he/she must provide a formal declaration of acceptance of the research grant. The declaration will also state that he/she is not subject to any of the exclusion conditions listed in article 4 of this Call.

If the candidate does not provide declaration of acceptance within a time limit of 7 days, he/she will lose his/her entitlement to the research fellowship that is automatically awarded to the next ranked candidate.

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

In case the selected candidate holds an academic qualification obtained in a foreign country not already declared, under existing national law, equivalent to one of the qualifications required by article 2, comma 1, letters a), b), or c), of the present “**Call**”, the Administration, basing on the results of the assessment by the “**Selection Board**” exclusively for the purposes of the admission procedure, will send those results, together with the documentation referred to in article 3, comma 2, letters a) or b), of the Decree of the President of Italian Republic n. 189, dated 30 July 2009, with the candidate request, to the Ministry of University and Research, for obtaining the opinion provided for in article 4, comma 2, of the same Decree.

In case of positive opinion by the Ministry of University and Research or in case of expiry of the time limit within which the opinion should be obtained, the Administration, with the same provision, communicated both to the person concerned and to the Ministry, recognizes the academic qualification and authorizes the awarding of research fellowships.

In case of negative opinion by the Ministry of University and Research, the Administration, with the same provision, communicated both to the person concerned and to the Ministry, provides that the academic qualification is not valid for the admission to the selection procedure, thus excluding the candidate, and authorizes both the scrolling of the ranking list and the awarding of research fellowships to the first of the eligible candidates.

Art. 10 – Fellowship obligations

The holder of the fellowship:

- will start the research activity at INAF-IAPS on the date indicated in the contract, unless prevented by exceptional circumstances, of which the Director of INAF-IAPS must be timely informed;
- will carry out his/her research activities under the supervision of dr. Sergio Fabiani;
- is required to issue an activity report every 12 months. 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 - IAPS. Approval failure, properly explained by the supervisor, will give INAF- IAPS the right to withdraw the contract;

- is required to send a written note in case of withdrawal, with at least 30 days' notice, otherwise INAF-IAPS is entitled to retain or request the reimbursement of the salary amount corresponding to the missed notice period.

The holder of the fellowship who does not carry out his/her research activity regularly without justifications, or repeatedly fails to fulfill the requirements or, according to the supervisor dr. Sergio Fabiani, shows evident lack of skills with the planned research activities, will incur the withdrawal of the contract.

Temporary suspensions of the research fellowship are due in case of mandatory maternity leave or in case of illness periods exceeding one month or of any other serious reasons. The reasons for suspending the research fellowship must be proved and certified, and promptly sent to the Director of INAF-IAPS.

Art. 11 – Applicable regulation

The INAF-IAPS shall comply with the current regulations promoting equal opportunities for women and men, non-discrimination and respect for privacy in processing personal data.

As for the cases not mentioned in this call, INAF-IAPS shall act in compliance with the current regulations concerning Italian public selection procedures.

Art. 12 – Final disposition

Any information regarding the present call could be request by sending an e-mail to the following address: silvia.calabria@inaf.it

Art. 13 - Personal Data processing

1. Pursuant to Article 13 of the “*Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC*” (“*General Data Protection Regulation*”), the National Institute for Astrophysics, acting as data controller, hereby informs that the personal data of candidates who submit an application for participation in this selection will be processed exclusively for the purposes connected to the aforementioned procedure by persons who, under the direct authority of the controller, are authorized to process personal data.

2. The personal data shall be processed even through automated means, also in case of communication to third parties.

3. The provision of such data is necessary to verify the participation requirements and failure to indicate them may preclude such verification.

4. Pursuant to Articles 15-21 of the “*General Data Protection Regulation*” the data subject has the right, at all time, to require National Institute of Astrophysics (Viale del Parco Mellini, 84 - 00136 Rome - Italy), free of charge, the access to his/her personal data, the rectification and correction of his/her personal data, the erasure of his/her personal data, the limitation of his/her data processing and the opposition of his/her data processing.

5. The data subject can exercise his/her abovementioned rights by writing to the Data Protection Officer of the National Institute of Astrophysics under the following addresses:

- Viale del Parco Mellini, 84 - 00136 Rome (registered letter);
- rpd@inaf.it (Email);
- rpd-inaf@legalmail.it (Certified mail).

6. The data subject has also the right to an effective judicial remedy, pursuant to article 79 of the GDPR, or to lodge complaints with the Garante per la protezione dei dati personali, the Italian Controller Authority, according to the provision of Article 77 of the GDPR.

The Director
Dr. Marco Feroci