**TRANSLATION OF ANNOUNCEMENT FOR 1 RESEARCH POSITION
MATHEMATICS AREA**

Decree no. 579/2024 dated 04 July.2024

Art.1   A public selection, based on qualifications, is hereby announced for 1 research position in the research field detailed in Annex 1. Full details, admission requirements and duration are listed in Annex 1. Candidates will be evaluated for their qualifications, publications and for the submitted research project.

Pursuant to Art. 7, par. 1, of the Italian Legislative Decree No. 165/2001, public administration bodies ensure gender equality and equal opportunities, as well as the absence of any form of direct or indirect discrimination on grounds of gender, age, sexual orientation, ethnicity, disability, religious belief and language, affecting access to employment, working conditions and economic treatment, vocational training, career advancement and workplace safety.

Art.2   Eligible candidates must be in possession of a scientific-professional curriculum which enables them to carry out research activity and meet the further requirements specified in Annex 1.

Personnel with permanent positions in Italian universities, public research and experimentation institutions, ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development), ASI (Italian Space Agency) or institutions which award scientific degrees equivalent to PhD, in accordance with art. 74, par. 4 of the Italian Presidential Decree No. 382 dated 11.07.1980 (dd/mm/yyyy), are excluded from applying.

In accordance with art. 18 of the Italian Law No. 240/10, candidates having a family relationship or other degree of kinship up to the 4th degree with the following persons are also excluded from applying:

- SISSA Professors belonging to the Area that requested the position;
- Director of SISSA;
- Secretary General of SISSA;
- Member of the Board of Directors of SISSA (please see Annex A).

The research fellowship is awarded through a private law contract which does not give any right to be employed by universities.

Art.3   The salary of the research fellowship detailed in Annex 1 is gross per year and includes contributions to be paid by the research fellow. The fellowship is paid monthly in arrears. The fiscal and social security treatment of the

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research fellowship is in accordance with art. 4 of Italian Law No. 476 dated 13.08.1984 and subsequent integrations and modifications, and with par. 26 and followings of art. 2, Italian Law No. 335 dated 08.08.1995 and subsequent integrations and modifications.

The School arranges an insurance coverage for fellowship holders against accidents in the workplace and for third-party liability while they are carrying out their research work. The insurance premium is deducted from the fellowship.

Given the resolutions of the Academic Senate and the Board of Directors of SISSA dated 20.02. and 27.02.2024 respectively, EU and non-EU foreign research fellows are entitled to a reimbursement of the costs incurred for their Italian health insurance up to a maximum of € 2,000.00. A reimbursement is also foreseen for a medical travel insurance covering the trip to Trieste at the start of the contract.

Art.4   The fellowship cannot be held concurrently with other fellowships of whatever kind, except those awarded by Italian or foreign institutions with the aim of integrating the research activity of the candidate through a period spent abroad.

Provided that they fulfil their research obligations, fellowship holders are authorized to carry out professional activity as long as it is compatible with the research position, does not pose a conflict of interest and is not prejudicial to the School. Fellowship holders willing to carry out an external activity on a continuous basis shall submit a specific request, which will be evaluated by the relevant Area Council and subsequently submitted to the Academic Senate of the School for approval.

If compatible with their research duties, and following written approval by the scientist responsible for the research project, fellowship holders can participate in research assignments commissioned to SISSA by third parties (pursuant to art. 66 of the Italian Presidential Decree No. 382/80), in accordance with the current regulations.

Fellowship holders cannot be enrolled in University Degree courses, PhD courses with scholarship or medical specialization programs in Italy or abroad.

Government employees must be given unpaid leave for the entire duration of the fellowship.

Art. 5   The requirements for the admission to the selection procedure are listed in Annex 1.

To prove the equivalence of a qualification so as to meet the requirements described in Annex 1, the candidate must refer to the list of equivalences

available on the website of the Italian Ministry of University and Research (https://www.mur.gov.it/it/aree-tematiche/universita/equipollenze-equivalenza-ed-equiparazioni-tra-titoli-di-studio/titoli-0).

Qualifications obtained abroad and declared equivalent by the Italian authority, according to the current legislation, will be accepted for the purposes of the selection procedure.

In the event of a foreign degree that has not been officially recognized as equivalent in Italy according to the law (https://www.cimea.it/EN/), the examining board, appointed pursuant to art. 6 below, may accept the application upon evaluation of the candidate's academic transcript and its consistency with the scientific sectors specified in Annex 1.

The qualifications evaluation criteria, which can be set by the examining board according to internationally recognised parameters, are consistency with the subject of the research fellowship, relevance and quality of the following qualifications and activities:

- the research project submitted by the candidate;
- proven research activity;
- academic qualifications (University Degree, PhD, specialization degrees or attendance certificates of other postgraduate specialization courses held in Italy or abroad);
- other qualifications.

The scientific qualifications must be relevant to the Area referred to in this announcement or to interdisciplinary subjects relevant to the areas involved.

Art.6   The examining board is appointed by decree of the Director of SISSA, upon a proposal of the relevant Area Council. It comprises up to nine members, of which one shall act as President and one as Secretary. The members of the examining board shall be chosen among professors and researchers of SISSA, other research institutions and universities, or among experts in the subjects referred to in this announcement. A deputy can be appointed for each member.

The evaluation of the research project and qualifications shall be carried out by the examining board according to the following table:

Qualification	Evaluation criteria	Score
Research project	Relevance, pertinence, quality	max 40 points
PhD	Relevance to the project	max 10 points

University Degree	Type of degree listed in the announcement - according to the degree mark	max 5 points
Published works and other research products	Relevance to the scientific disciplinary sector of the research project	max 25 points
Other post-lauream Degrees	Relevance to the scientific disciplinary sector	max 5 points
Other qualifications	Contracts, scholarships, enrollment in PhD programs, periods spent abroad, etc., if any	max 15 points
TOTAL		**100 points**

A candidate is eligible if s/he scores at least 70/100.

The examining board may carry out the evaluation, select the eligible candidates, draw up the ranking and fill out the minutes through video conferencing. At the end of the evaluation the examining board will draw up a report, including the evaluation criteria, the total mark obtained by each candidate and a ranking of the eligible candidates. The acts of the selection procedure and the ranking are approved by Directorial Decree.

The first eligible candidate will be offered a research fellowship contract with SISSA, pursuant to art. 22 of the Italian Law No. 240/10, in its former version prior to Law No. 79 dated 29.06.2022.

Being in the ranking does not give any right in other selection procedures.

Art.7 **Under penalty of exclusion, the application** for this selection procedure, along with evidence of the relevant qualifications and scientific publications, **shall be submitted online through the electronic application accessible at the following link:** https://pica.cineca.it/sissa/ar-fs-mate-32-2024.

A valid email address is required for the registration process.

Applicants shall upload all personal and professional data as requested by the application procedure. All documents must be uploaded in .pdf format. Each applicant may submit a maximum of no. 30 publications and a maximum of no. 30 other documents regarding titles and qualifications. The attachment size limit is 30 Mb.

All fields in the online application form must be filled out. Under penalty of exclusion, the application must contain:

- a curriculum vitae with a complete list of the candidate's scientific and professional activities;
- a valid ID of the candidate, to be uploaded in electronic format.

- a short research project proposal, to be carried out if the candidate is awarded the fellowship.

Candidates accessing the PICA platform using their digital identity (SPID – Public Digital Identity System) will not be required to upload a scan of their personal ID, nor to sign and upload their application.
Failure to comply with the online application procedure will result in the exclusion of the applicant from the selection.
Prior to final submission, and within the deadline for applications submission, the online application procedure allows to modify and save a draft copy. Confirmation of the final submission date will be certified by an automatic notification email. Submissions after the deadline will not be accepted by the system, as the online application procedure won't be accessible.

The online application and submission procedure shall be completed **by 5 August 2024, 11:59 p.m., CEST (Rome time)**. The submission of two <u>reference letters</u> is recommended. The letters shall be uploaded on the PICA platform by the candidate's referees/supervisors <u>no later than 12 August 2024, 11.59 p.m. CEST (Rome time)</u>.

The submission of the online application must be completed and finalized:
- **with the digital signature of the candidate**, by means of smart card, USB token or remote digital signature allowing the applicant to digitally sign electronic documents with a software using a PC or a web portal for Remote Signature, provided by a Certification Service Provider (CSP). Candidates with a smart card or a USB token for digital signature should check the compatibility with the Digital Signature system embedded in our server. In case of compatibility, candidates shall sign the application on the server (e.g. ConFirma);
- **holders of server-incompatible Digital Signature and holders of Remote Digital Signature** who can access a web portal for digitally signing electronic documents shall save the .pdf file generated by the system on their PC. The .pdf file shall not be modified in any way, and it shall be digitally signed in CAdES format: the system will generate a .p7m file. The candidate shall upload this .p7m file on the system. No changes are to be made to the file by the candidate before the digital signature, on pain of exclusion from the selection procedure;
- **if the above-mentioned options do not apply**, candidates shall save the .pdf file generated by the system on their PC. The .pdf file shall not be modified in any way, on pain of exclusion from the selection

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procedure. The .pdf shall be printed out, signed on the last page, scanned in .pdf format and uploaded on the system.

For any technical issue regarding the application, candidates may contact the technical support through the link at the bottom of the page: https://pica.cineca.it/sissa ("supporto").

SISSA will verify that all the statements made in the application and the accompanying documents comply with the provisions of Presidential Decree No. 445/2000.

Art.8   After a budget verification has been carried out, the selected candidate will be formally notified of the award of the research fellowship.

Within 30 days from the start of the research activity at SISSA, Italian and EU candidates and non-EU citizens resident in Italy will have to submit a valid ID and fill out the following documents:

1) affidavit attesting birth, citizenship, place of residence and Italian tax code of the applicant;

2) affidavit attesting the possession of a University Degree and a PhD (only if required in the announcement);

Non-EU citizens authorized to sojourn in Italy owing to conventions between Italy and their own country have to submit the same above-mentioned documents.

Non-EU citizens regularly sojourning in Italy may submit an affidavit according to articles 46 and 47 of Presidential Decree No. 445/2000 only for personal data and events which can be certified and attested by public Italian authorities.

In any other case, the information requested in points 1) and 2) of this article must be notified by means of an affidavit, and plain copies of the relevant documents must be submitted within 30 days from the beginning of the research activity at SISSA. Within 60 days from the beginning of their research activity, research fellows have to submit certificates and declarations issued by the foreign competent authorities, accompanied by an Italian translation authenticated by the Italian Consulate abroad. The School reserves the right to verify all affidavits.

Should the winner refuse the position, not accept it or fail to submit the above-mentioned documents on time, the research fellowship may be offered to the next eligible candidate in the classification list, following the authorization granted by the Director, at the express request of the Area Coordinator or the scientist responsible for the research activity.

The starting date of the fellowship shall be agreed with the Area Coordinator or with the scientist responsible for the research project.

Art.9 Fellowship holders undertake to carry out their research activity as foreseen in the contract and compatibly with the research programs of the Area concerned.

The research activity is carried out in the frame of the research project for which the applicant has been selected. Every year fellowship holders must submit a report to the Area Council on the activity carried out in the previous year. In case of major non-compliance the contract can be terminated by decision of the School Senate and upon a reasoned proposal of the Area Council, having heard the research fellow.

The contract is automatically resolved in the following cases:

- unjustified delay or failure to start the research activity;
- unjustified suspension of the activity for more than 15 days;
- breach of the incompatibilities established by the current Rules for the awarding of research fellowship at SISSA;
- negative evaluation of the research activity expressed by the Area Council.

An authorized absence of up to 30 days a year does not require the fellowship to be suspended or the absence to be made up at a later date.

Fellowship holders wishing to resign must give a notice of at least 30 days, in which case no penalty shall be applied by SISSA. Failure to do so shall result in a penalty involving the recovery or the failure to pay the salary for the period of notice not given. The 30 days' notice is not required during the first 30 days of research activity.

Art.10 The total duration of the research fellowship including the renewals must not exceed 6 years with the same researcher. To this end, any period during which the candidate was holding a research fellowship while being enrolled in a PhD program (without scholarship) is not taken into account, up to the legal duration of the PhD program.

In accordance with the Italian Law No. 240/10 candidates cannot be awarded research fellowships or temporary researcher contracts with public, private or online universities, nor with other institutions as specified in Art. 22, par. 1, of Law No. 240/10 for a period exceeding 12 years, whether consecutive or not. To this end, the periods of absence due to maternity leave or state of illness are not taken into account.

The renewal of the research fellowship is decided by the School Academic Senate and, as for the financial coverage, by the Board of Directors, on the basis of an evaluation of the research activity carried out by the fellowship holder and the progress achieved in the research program, upon request of the scientist responsible for the research activity.

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Art.11 All matters regarding data processing and protection are in accordance with the Italian Legislative Decree No. 196 dated. 30.06.2003, as amended by Legislative Decree No. 101 dated 10.08.2018, that transposes Regulation (EU) 2016/679 (GDPR). All the data provided to this administration will be processed for the sole purposes connected with and instrumental to the selection procedure and the drawing up and management of the contract.

THE DIRECTOR
Prof. Andrea Romanino
(Italian version signed digitally)

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ANNEX 1
MATHEMATICS AREA
Public selection based on qualifications

Fields of the research activity: **"Conservation Laws: - regularity of entropy or non entropy solutions and of the dissipation measures - solutions of balance laws - blow up of solutions with a source - uniqueness of solutions to hyperbolic systems of two conservation laws"**

Scientist responsible for the research activity: Prof. Stefano Bianchini
Members of the research group: Prof. Stefano Bianchini

Area 01 – Mathematics and Computer Science
Public selection sector: 01/MATH-03 – Mathematical Analysis, Probability and Mathematical Statistics
Relevant academic scientific sector: MATH-03/A - Mathematical Analysis

Duration of the research fellowship: 24 months.
Gross remuneration per year: € 24.336,00

Minimum requirements for admission to the selection procedure:
University degree: **Master of Science** in Mathematics, Physics, Engineering or related subjects.
A PhD in Mathematics is a preferred qualification.

Proven experience: Ability of doing research and managing collaborations, submission and publication of papers with original scientific results.

The online application and submission procedure shall be completed by 5 August 2024, 11:59 p.m., CEST (Rome time). The submission of two <u>reference letters</u> is recommended. The letters shall be uploaded on the PICA platform by the candidate's referees/supervisors <u>no later than 12 August 2024, 11.59 p.m. CEST (Rome time)</u>.

<u>Evaluation criteria:</u>
Research project: up to 40 points
PhD: up to 10 points
MSc. degree: up to 5 points
Published works and other research products: up to 25 points
Further post-lauream diplomas: up to 5 points
Other titles: up to 15 points
TOTAL: up to 100 points

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The gross total cost of the research fellowship will be covered by School funds assigned to the Mathematics Area.

Position approved by:
Mathematics Area Council: 15.05.2024
Academic Senate of the School dated 28.05.2024
Board of Directors of the School dated 04.06.2024