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\*This document contains excerpts from the call translated into English, in particular Articles 2 and 3 of the call concerning the evaluation criteria and application procedures. This English version is provided solely for the convenience of potential international applicants. It has no legal value. In case of discrepancies, only the official Italian version published by Sapienza University of Rome shall be considered valid.\*

**It is strongly recommended not to submit the application close to the deadline.**

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**\*\*Call for Applications – RTDA No. 1/2025\*\***

**\*\*Fixed-Term Research Position (Type A)\*\***

**\*\*Department of Mathematics Guido Castelnuovo – Sapienza University of Rome\*\***

**\*\*Project\*\***: ERC Consolidator Grant – *KiLiM* – Project Code: 101125162 (Scientific Coordinator: Prof. Sergio Simonella)

**\*\*Scientific Areas\*\***: GSD 01/MATH-04 - SSD MATH-04/A and GSD 01/MATH-03 – SSD MATH-03/B

**\*\*Research Topic\*\***: *Kinetic Limits of Many-Body Systems*. Development of techniques for studying the dynamical laws of systems of interacting particles with random initial data, which form the basis of the kinetic theory of gases. In particular, the goal is to derive and describe, using rigorous mathematical methods, the solutions to the Boltzmann - Vlasov -

Landau equations in appropriate scaling limits that model systems with a large number of components in regimes of low density or weak coupling, and in the context of realistic and physically relevant interaction models.

**\*\*Contract Type\*\***: Researcher (Type A) on a full-time fixed-term basis, duration of 3 years.

**\*\*Salary\*\***: Equivalent to 100% of the starting salary of a full-time Researcher (gross yearly salary is approximately 39k euros).

**\*\*Teaching Load\*\***: Between 36 and 72 hours of lectures per academic year.

**\*\*Eligibility Requirements\*\***:

- A PhD in Mathematics or Physics (or equivalent foreign degree);
- Applicants must not have exceeded 12 years of prior contracts and research grants as described by Law 240/2010;
- Ineligibility applies to candidates with familial ties (up to fourth degree) to faculty of the Department, Rector, General Director, or members of Boards.

**\*\*Selection Procedure\*\***:

- Evaluation of qualifications and scientific output (up to 12 selected publications);
- Knowledge of English will be assessed;
- A public seminar and interview will be held for shortlisted candidates.

**\*\*Application Deadline\*\***: 30 days from the publication of the notice in the Official Gazette (Gazzetta Ufficiale – IV Serie speciale Concorsi ed Esami).

**\*\*Submission Method\*\***:

- Via email to: [matematica@cert.uniroma1.it](mailto:matematica@cert.uniroma1.it) (PDF format with scanned signature);
- Alternatively, by registered mail (see full instructions in the official Italian call);
- Required documents: application form, ID, CV (EU format), publication list, selected publications, academic qualifications, and declarations as specified.

**\*\*Contact\*\***: Dr. Rosanna Briscese – [rosanna.briscese@uniroma1.it](mailto:rosanna.briscese@uniroma1.it)

**\*\*Department Address\*\***: Piazzale Aldo Moro 5, 00185 Rome, Italy

For full and legally binding details, please consult the official Italian version of the call, available on the Sapienza portal and the Department website.

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## Art. 2 – Selection Criteria

The preliminary evaluation of the candidates, including a reasoned analytical assessment of qualifications, curriculum, and scientific production (including the doctoral thesis), shall be carried out on the basis of the following criteria and parameters, consistent with those commonly used in the international scientific community:

Number of publications eligible for merit evaluation: no more than 12.

Foreign language subject to verification of the candidate's scientific language skills: English.

Preferred qualifications: none.

Required scientific and/or technological experience, in relation to the research line on which the researcher will be engaged:

- ✓ PhD in Mathematics or in Physics;
- ✓ University-level teaching experience in Italy or abroad;
- ✓ At least 1 year of postdoctoral experience on projects related to mathematical physics;
- ✓ Previous experience in the use of analytical techniques typical of statistical mechanics and kinetic limits;
- ✓ Knowledge of analytical and probabilistic techniques in non-equilibrium statistical mechanics;
- ✓ Knowledge of techniques for the study of scaling limits of many-body systems and collisional kinetic theory.

Database with respect to which the candidate must self-certify bibliometric indicators relating to their scientific output: Scopus and MathSciNet.

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## Article 3 of the call – Application for Admission

The application to participate in the selection procedure, written on plain paper following the attached template (Annex A), addressed to the Director of the Department of Mathematics Guido Castelnuovo of Sapienza University of Rome, must be submitted

electronically (in PDF format with scanned signature and all attached documents) to the email address [matematica@cert.uniroma1.it](mailto:matematica@cert.uniroma1.it) within thirty days from the day following the publication of the notice of this call in the Official Gazette IV Special Series - Competitions and Exams. If the deadline falls on a public holiday, the deadline is extended to the next working day.

In the application, candidates must indicate a personal email address to which all communications will be sent, including the invitation to the interview, with no further obligation of notice. The candidate must submit electronically a curriculum vitae in the standard European format, with a list of publications attached, and must also indicate in the application the publications selected as most significant.

If electronic submission of the application is not possible, it may be sent by registered mail with return receipt to the following address: Department of Mathematics Guido Castelnuovo of Sapienza University of Rome – Piazzale Aldo Moro no. 5 – ZIP Code 00185 - Rome (RM) – within the term of thirty days starting from the day following the publication in the Official Gazette of the notice of this selection. The postmark of the post office will be used as proof. If the deadline falls on a public holiday, the deadline will be extended to the next working day.

The selected publications must be sent in PDF format, or by registered mail with return receipt to the Department of Mathematics Guido Castelnuovo of Sapienza University of Rome – Piazzale Aldo Moro no. 5 – ZIP Code 00185 - Rome (RM) within the deadline of the call. The candidate may submit any title deemed useful for evaluation purposes, including letters of reference, even in a foreign language, written by Italian or foreign scholars. Letters of reference will be considered for evaluation only if attached to the application in encrypted PDF format. It is the responsibility of the scholar writing the letter to send the password to decrypt the file to the following email address: [concorsi.matematica@uniroma1.it](mailto:concorsi.matematica@uniroma1.it); in the subject of the email, the number of the call and the candidate's name must be specified. The letters of reference must be attached to the application for the selection procedure.

In the application, the candidate must, under penalty of exclusion from the selection, declare:

1. surname and name;
2. date and place of birth;
3. residence;
4. tax code (only for Italian citizens);
5. nationality held;
6. registration in electoral rolls, specifying the Municipality and indicating, if applicable, the reasons for non-registration or cancellation; candidates who are citizens of foreign States must declare that they enjoy civil and political rights in their States of origin or provenance, or indicate the reasons for not enjoying such rights;

7. criminal record status, indicating any convictions and pending criminal proceedings;
8. current status with respect to military obligations (only for Italian citizens);
9. not having been dismissed or discharged from employment in a Public Administration for persistent poor performance and not having been declared disqualified from a state job under Article 127, paragraph 1, letter d), of Presidential Decree 10 January 1957, no. 3 (only for Italian citizens);
10. adequate knowledge of the Italian language (only for foreign citizens);
11. not having a family relationship or affinity up to the fourth degree inclusive, or a relationship of marriage with a professor belonging to the Department or structure making the call or with the Rector, the General Director or a member of the Board of Directors of the University of Rome "La Sapienza" (Article 18, paragraph 1, letters b) and c), Law 240/2010).

The following documents must be attached to the application, under penalty of exclusion:

1. copy of a valid identity document;
2. copy of the tax code (only for Italian citizens);
3. dated and signed curriculum of scientific-professional activity;
4. titles considered useful for the selection with related dated and signed list;
5. scientific publications already printed by the application deadline, with a numbered, dated, and signed list indicating the authors' names, title, publisher, date and place of publication or title, collection or volume number, and year of reference.

The titles the candidate intends to submit must be presented in the original or in a copy declared to be conforming to the original by self-certification pursuant to Articles 46 and 47 of Presidential Decree no. 445/2000 (Annexes B and C).

For Scientific Disciplinary Groups (GSD) where it is internationally common practice, in the application, under penalty of exclusion, the candidate must self-certify the bibliometric indicators related to scientific production taken from the database indicated in Article 2 of this call.

All methods of self-certification mentioned so far apply equally to Italian and EU citizens (Article 3 of Presidential Decree no. 445/2000).

Non-EU citizens residing in Italy, according to the provisions of the residents' registry regulations approved by Presidential Decree no. 223/1989, may use substitute declarations only to the extent that they concern states, facts, and personal qualities certifiable by Italian public or private bodies.

Certificates issued by the competent authorities of the State of which the foreigner is a citizen must comply with the provisions in force in that State and must also be legalized by the competent Italian consular authorities.

Documents written in a foreign language, if different from English, French, German, and

Spanish, must be accompanied by a certified translation into Italian, carried out by the competent diplomatic or consular representation or by an official translator.

For publications printed in Italy, compliance with the obligations established by Article 1 of the legislative decree of 31 August 1945, no. 660 or by Articles 6 and 7 of Presidential Decree of 3 May 2006, no. 252 (in force since 2 September 2006) must be met.

Proof of such compliance must be provided by appropriate documentation attached to the application or by the candidate's self-certification under Presidential Decree no. 445/2000.

For publications printed abroad, the date and place of publication must be indicated.

Publications must be submitted in their original language and, if in a language other than Italian, French, English, German, or Spanish, must be accompanied by a translation into one of those languages. Translations must be submitted along with the original texts, in a typewritten copy certified as conforming to the original in accordance with current regulations.

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## **Annex A – Application Form (Template)**

To the Director of the Department of Mathematics Guido Castelnuovo

The undersigned \_\_\_\_\_, born in \_\_\_\_\_ (province of \_\_\_\_\_) on \_\_\_\_\_, residing in \_\_\_\_\_ (province of \_\_\_\_\_), zip code \_\_\_\_\_, street address \_\_\_\_\_, requests to be admitted to the selection procedure for one position of Fixed-Term Researcher - Type A at the Department of Mathematics Guido Castelnuovo, Faculty of Mathematical, Physical and Natural Sciences, Scientific-Disciplinary Sector \_\_\_\_\_, Scientific Group \_\_\_\_\_, as per the call issued with D.D. No. 1/2025 published in the Official Gazette – IV Special Series No. 50 dated 27.06.2025, competition code RTDA No. 1/2025.

To this end, pursuant to Articles 46 and 47 of Presidential Decree No. 445 of December 28, 2000, and aware of the criminal penalties in case of false declarations, under Article 76 of the same Decree, the undersigned declares under their responsibility:

- 1) Tax code (only for Italian citizens): \_\_\_\_\_;
- 2) Citizenship: \_\_\_\_\_;
- 3) Voter registration (Italian citizens) or enjoyment of civil/political rights in country of origin: \_\_\_\_\_;
- 4) No criminal convictions or pending charges (otherwise provide details): \_\_\_\_\_;
- 5) Current status regarding military service (for Italian citizens): \_\_\_\_\_;
- 6) No dismissal or disqualification from public administration positions: \_\_\_\_\_;
- 7) Adequate knowledge of the Italian language (for non-Italian citizens): Yes / No;
- 8) No family relationship (up to 4th degree), marriage or similar ties with department faculty, Rector, Director General, or Board members: Yes / No;
- 9) Not having exceeded the 12-year cumulative limit under Art. 24 and 22 of Law 240/2010: Yes / No;
- 10) Contact address for all communications related to this call: \_\_\_\_\_;
- 11) Preferred email address for all communications (including interview notices): \_\_\_\_\_;
- 12) Possession of a PhD in \_\_\_\_\_, awarded on \_\_\_\_\_ at \_\_\_\_\_

\_\_\_\_\_;

The undersigned declares, under his/her personal responsibility, that what has been stated above corresponds to the truth and undertakes to prove it through the submission of the required documents within the terms and in the manner established by the call.

The undersigned attaches to the application:

- 1) a photocopy of an identity document (signed and in PDF format);
- 2) a photocopy of the tax code (only for Italian citizens);
- 3) scientific and professional curriculum vitae (Annex “B”, dated, signed, and in PDF format);
- 4) substitute declaration of certification and/or affidavit (Annex “C”), pursuant to Articles 46 and 47 of Presidential Decree 445/2000, attesting to the possession of all the qualifications listed in the curriculum vitae and the indicators relating to the entirety of one's scientific production;
- 5) list of qualifications and numbered list of publications submitted (dated, signed, and in PDF format);
- 6) qualifications and publications deemed useful for the purpose of scientific and teaching evaluation (respecting the indicated minimum and maximum number and in PDF format);
- 7) a version of the curriculum vitae without personal data not suitable for publication (personal data, tax code, phone number, email address, registered residence), drafted in such a way as to ensure its compliance with Article 4 of the Personal Data Protection Code and Article 26 of Legislative Decree no. 33 of 14 March 2013, for the purpose of publication, and marked as intended “for publication purposes”.

The undersigned gives his/her consent for the personal data provided in this application to be processed in compliance with European Regulation no. 679/2016 and Legislative Decree no. 675/1996, for the requirements related to the selection procedure and any possible signing and management of the employment contract.

Place and date: .....

Signature: .....

(not subject to authentication pursuant to Article 39 of Presidential Decree 28.12.2000, no. 445)



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THIS ANNEX IS A TEMPLATE, IN WHICH SOME ITEMS ARE INDICATED FOR ILLUSTRATIVE PURPOSES ONLY. THEREFORE, IT MAY BE MODIFIED/INTEGRATED BY THE CANDIDATE TO REFLECT THE SPECIFIC FEATURES OF THEIR SCIENTIFIC AND PROFESSIONAL ACTIVITY.

## **Annex B – Curriculum Vitae (Template)**

Selection procedure for 1 fixed-term researcher position – Type A  
at the Department of Mathematics Guido Castelnuovo, Faculty of Mathematical, Physical and Natural Sciences

Scientific Disciplinary Sector ....., Scientific Disciplinary Group .....

as per the call issued by Directorial Decree no. 1/2025 with notice published in the Official Gazette – IV Special Series no. 50 on 27.06.2025, competition code RTDA no. 1/2025.

NAME SURNAME

Curriculum Vitae

Part I – General Information

Full Name

Date of Birth

Place of Birth

Citizenship

Permanent Address

Mobile Phone Number

E-mail

Spoken Languages

Part II – Education

Type / Year / Institution / Notes (Degree, Experience,...)

Part III – Appointments

A. Academic Appointments: Start / End / Institution / Position

B. Other Appointments: Start / End / Institution / Position

Part IV – Teaching Experience

Year / Institution / Lecture or Course

Part V – Society Memberships, Awards and Honors

Year / Title

Part VI – Funding Information (Grants as PI or Investigator)

Year / Title / Program / Grant Value

Part VII – Research Activities

Keywords / Brief Description

Part VIII – Summary of Scientific Achievements

Product Type / Number / Database / Start / End

(e.g., International Papers, National Papers, Books, etc.)

Total Impact Factor / Total Citations / Average Citations / H-index / Normalized H-index

Part IX – Selected Publications

Provide detailed list of up to 12 selected publications including title, authors, journal, IF, citation count, media coverage (if any).

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## **Annex C – Self-Declaration (Pursuant to DPR 445/2000)**

### **SUBSTITUTE DECLARATIONS OF CERTIFICATION AND AFFIDAVIT PURSUANT TO ARTICLES 46 AND 47 OF PRESIDENTIAL DECREE NO. 445 OF DECEMBER 28, 2000**

I, the undersigned .....  
born in ..... province of ..... on .....  
and residing in ..... Street .....  
aware of the criminal penalties in the case of false statements, creation or use of false  
documents,  
as referenced in Article 76 of Presidential Decree no. 445 of December 28, 2000,

#### **DECLARE:**

.....  
.....  
.....  
.....  
.....  
.....  
.....

The undersigned also declares that,  
for procedures in Scientific-Disciplinary Sectors (SSD) classified as bibliometric for national  
scientific qualification, they are, as of the deadline for submitting applications, in  
possession, in relation to the Scientific-Disciplinary Sector for which the procedure is called,  
of the following indicators, calculated exclusively with reference to the types of products  
valid for participation in the National Scientific Qualification procedures:

- total number of works in international databases recognized for national scientific  
qualification ...  
(reference database: .....);
- Hirsch index ..... (reference database: .....);
- total number of citations ..... (reference database: .....);
- average number of citations per publication ..... (reference database:  
.....);

•total "impact factor" and average "impact factor" per publication, calculated with reference to the year of publication ..... (reference database: .....).

**OR**

for procedures in Scientific-Disciplinary Sectors classified as non-bibliometric for national scientific qualification, they are, as of the deadline for submitting applications, in possession, in relation to the Scientific-Disciplinary Sector for which the procedure is called, of the following indicators, calculated exclusively with reference to the types of products valid for participation in the National Scientific Qualification procedures:

- number of articles and contributions;
- number of articles published in Class A journals;
- number of monographs.

**Notice:** The above substitute affidavit regarding the possession of the indicators relating to one's overall scientific production must be submitted under penalty of exclusion from the procedure.

The undersigned further declares to be in possession of all qualifications listed in the curriculum vitae.

The undersigned attaches to this declaration a non-certified photocopy of the following valid identification document:

....., issued by ..... on  
.....

The undersigned expresses their consent for the personal data provided in this declaration to be processed in accordance with Regulation (EU) No. 679/2016 and Legislative Decree No. 675/1996, for purposes related to the selection procedure and any subsequent hiring process.

Place and date: .....

**The declarant**

.....

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**Substitute declarations of certification**, governed by Article 46 of Presidential Decree No. 445 of December 20, 2000, allow the concerned citizen to fully and definitively replace administrative certifications related to status, personal qualities and facts, such as: registration in rolls or lists held by public administrations; educational qualifications, exams taken; possessed professional qualifications, specialization titles, licenses, training, updates, and technical qualifications.

**For illustrative purposes only**, below are some sample statements that can be transcribed in the substitute certification declaration form:

- to be in possession of the following educational qualification:

\_\_\_\_\_ obtained on ..... at .....  
with grade .....

- to have passed the following exams: \_\_\_\_\_  
on ..... at .....  
with grade .....

- to be in possession of the following professional qualification

\_\_\_\_\_ obtained on .....  
at .....

- to be in possession of the following title of specialization/licensing/training/  
updating/qualification .....  
obtained on ..... at .....

- to have provided the following service

\_\_\_\_\_ at ..... from ..... to .....

**Substitute declarations of affidavit** allow the citizen to prove all statuses, personal qualities, and facts not expressly indicated in Article 46 of Presidential Decree 445/2000.

These declarations, governed by Article 47 of Presidential Decree no. 445 of December 28, 2000,

do not replace administrative certifications, but rather affidavits belonging to the category of recorded statements.

With the substitute declaration of affidavit, it is therefore possible to certify: facts, personal qualities, and statuses known directly by the interested party, which are not included among the self-certifiable data by means of a substitute declaration of certification.

The conformity to the original of a copy of a document issued by a public administration, of a publication, or of an educational qualification (Article 19 of Presidential Decree 445/2000).

The titles/publications whose conformity to the original is declared can be included in a single substitute affidavit,

but must be specifically listed; generic phrases like “... all documents/publications attached to the application are true copies of the original” are not sufficient.

**For illustrative purposes only**, below are some sample statements that can be transcribed in the substitute affidavit declaration form:

- the copy of the following publication titled: \_\_\_\_\_  
published by ..... reproduced in full/excerpt from page ..... to page  
..... and therefore consisting of  
no. .... pages is a true copy of the original.

- the copy of the following act/document:

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kept/issued by the Public Administration \_\_\_\_\_  
consisting of no. \_\_\_\_ pages is a true copy of the original.

- the copy of the educational qualification/service:

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issued by the Public Administration \_\_\_\_\_ consisting of  
no. \_\_\_\_ pages is a true copy of the original.

- for the publication .....  
(title)

the legal deposit was fulfilled by

.....

(state the name, or the legal name and address of the entity obliged to fulfill the deposit)