



SCUOLA INTERNAZIONALE SUPERIORE DI STUDI AVANZATI

**TRANSLATION OF ANNOUNCEMENT FOR 4 RESEARCH POSITIONS
(Decree n.430 dated 01.08.2012)**

Art. 1

A public selection, based on the evaluation of academic qualifications, is hereby announced for 4 research positions in the **Scientific Area specified in Annex 1** at the International School for Advanced Studies (SISSA) in Trieste as specified in the following list. Admission requirements, the required experiences and the eventual oral examination are specified in the over mentioned Annex 1.

Art. 2

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 the Annex 1. Personnel with permanent positions in Italian Universities, Astronomical and Astrophysical Observatories and Public Research Institutions (in accordance to the Italian law DPCM of 30.12.93, art. 8), E.N.E.A. and A.S.I., or in Institutions which confer scientific degrees considered equivalent to PhD (in accordance to the Italian law DPR no. 382/80, art.74) are excluded from applying.

In accordance to the Italian law 240/10, art.18 candidates having a family relationship or other degree of kinship with the following persons are also excluded from applying:

- SISSA Professors belonging to the Areas which are offering the position
- Director of SISSA;
- Secretary General of SISSA
- Members of the Council of Administration of SISSA (see Annex A)

The research fellowship is awarded through a private contract which does not give any right regarding access for employment in the Universities.

Art. 3

The research fellowship's amount is specified in the annex 1 and includes contributions to be paid by the contractor. The fellowship is paid monthly. The fiscal and social security treatment of the research fellowship is in accordance with Italian law no. 476/84, art.4 and Italian law no. 335/95, art.2, par. 26 and followings. The School provides accident and third-party insurance that covers the research fellow while carrying out research for the School. The insurance premium is deducted from the fellowship.

Art. 4

The fellowships cannot be held contemporaneously with other fellowships of whatever kind, except those awarded by Italian or foreign Institutes with the aim of integrating the training or research activity of the fellowship holders through a period abroad. The Academic Senate of the School can authorize fellowship holders to carry out other professional activities if they are compatible with the research position, are not in conflict of interest with the same position and are not prejudicial to the School. Fellowship holders willing to carry out external activity in a continuous way, if compatible with their research assignments, and following a written approval



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by the scientist responsible for the research project, can participate in research assignments commissioned by SISSA for third parties (in accordance with the art. 66 of the Italian D.P.R. 382/80) and in the division of the earnings coming from this activity, in accordance with the regulations. Fellowship holders can not be enrolled in University Degree courses, PhD courses with fellowship or medical school of specialization in Italy or in a foreign country. The research fellowship holder, who is a State employee, must be given unpaid leave for the period of the fellowship.

Art. 5

The academic requirements for admission to the competitive selection mentioned above on art. 1 are specified in the annex 1. The selection is based on the evaluation carried out on the academic qualifications and publications of the applicant. Before the beginning of the evaluations the examining board will define the evaluation criteria for academic qualifications and publications and for the interview, if foreseen. The academic qualifications evaluation criteria, which can be specified by the examining board coherently to international parameters, will value the relevance, the importance and the quality of:

- proven research activity;
- academic titles (University Degree, PhD, specialization degrees or other certificates of attendance regarding post-degree specialization courses in Italy or in foreign countries frequency);
- other qualifications.

The academic qualifications must be relevant with the positions offered or with similar research field and must be in possession of the applicants at the expiry date of the public announcement.

Art. 6

The examining board is nominated by the Director of SISSA, according to the proposal of the concerned Area Council. It is composed of at least three members and not more than five chosen among professors and researchers of SISSA, universities and research institutions and experts in the subjects. At the end of the evaluations the examining board will draw up a report, including the evaluation criteria, the total mark obtained by each candidate and a classification of those considered eligible relevant to each scientific field of interest (*Settore Concorsuale*).

The interview, if any, is normally carried out at SISSA.

Candidates living out of Italy or 500 km far from SISSA can sit a telematic oral examination using workstations located in Universities or Italian diplomatic offices. The identity of the applicants must in this case be certified by the personnel of the workstation or through telematic location. The applicant's identity will be afterwards verified when the contract will be signed. Candidates willing to apply to the telematic procedure must specify it in the application form.

The procedure results and the final classification will be approved by Director Decree. The eligible candidate will undertake a research contract with SISSA in accordance with Italian Law no. 240/10, art. 22.

The classification will not give any rights to further procedures.



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Art. 7

Applications, which must be consistent with the attached form ("application"), have to be addressed to the Director of SISSA and **must reach the School**, via Bonomea, 265, 34136-Trieste, **no later than September 3, 2012, 1:00 p.m.**

The application form with the original signature must be sent:

1. by postal mail;
2. by fax (no. 0403787240) if accompanied by a copy of a legible and valid identity document or
3. by delivery to Human Resources Office (Sissa, Via Bonomea 265 – Trieste, rooms 203-204, second floor) from 8:30 a.m. to 2:30 p.m., except the date of expiration: 1.00 p.m.)

Applications sent by electronic mail will not be accepted.

In their applications candidates will have to indicate:

- a) their full particulars, date and place of birth, home address, the address where they wish to receive communications regarding their application and a telephone number. Changes in this information should be rapidly communicated to the Direction of the School;
- b) the specific position to which the applicant wishes to submit a research project proposal. Those who wish to apply for more than one position will have to submit a specific application for each one accompanied by relevant academic qualifications and publications. No reference to academic qualifications or publications submitted in other applications is admitted.
- c) the University Degree obtained, indicating the date it was awarded, the mark obtained and the University which awarded it, the title of the degree thesis and the name of the supervisor;
- d) the title of the PhD Degree obtained, indicating the date it was awarded, the University which awarded it, the title of the PhD Degree thesis and the name of the supervisor;
- e) any other academic qualifications which prove their scientific curriculum.
- f) the complete list of the academic qualifications and publications to be submitted to the examining board. This list must be prepared in accordance with international formats and must specify all the authors. Copy of the academic qualifications (e.g. University Degree) and publications have to be included with the application or in alternative, sent in pdf to the following e-mail address: assegni.ricerca@sissa.it.

Please note that the application can be sent only as specified in point 1, 2 and 3 of this article. The SISSA Administration does not assume any responsibility for any missing, late or incomplete transmission of documentation connected to the selection process due to postal, telegraphic or computer problems for which SISSA is not at fault.

The SISSA Administration does not assume any responsibility for the loss of correspondence due to an incorrect address indicated by the candidate or due to a late, or lack of communication of address change in the application; mistakes by third parties in delivering correspondence by post or telegramme, fortuitous events or reasons of force majeure.

Within three months of the examination, candidates must meet the expenses of the documents retrieved and of the publications submitted. After this period SISSA cannot be held responsible in any way for these documents and publications.



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Art. 8

After a budget verification has been carried out, the suitable candidate will receive notification of the award of the research contract. Within 30 days from the beginning of the research activity at SISSA, Italian and European Community citizens or non-European Community citizens resident in Italy will have to send to the Direction of SISSA the following documents:

- 1) personal declaration of birth, citizenship and residence or presentation of a valid identity document; non-European Community citizens have to show their passport;
- 2) personal declaration and copy of documents attesting: the possession of a PhD Degree or the completion of a three-year PhD course or the possession of a University Degree including the mark obtained and the date in which the degree was awarded or the possession of an equivalent academic qualification;
- 3) copy of the fiscal code issued in Italy.

Non-European Community citizens authorized to sojourn in Italy in accordance with the conventions between Italy and their own country have to send the same above-mentioned documents.

Non-European Community citizens regularly sojourning in Italy can use a substitute declaration exclusively for personal details certified and attested by public Italian bodies in accordance to the Italian law 445/2000.

In any other case the above-stated information has to be documented by a personal declaration and by relative photocopies within 30 days from the beginning of the research activity at S.I.S.S.A. Within 60 days from the beginning of their research activity winners have to produce a declaration concerning the information requested in points a), c) e d) issued by the foreign competent authorities with a translation in Italian authenticated by the Italian Consulate abroad.

The School reserves the right to verify all personal declarations.

Should a letter of acceptance not be received, or the above documents not be presented in time or a candidate refuse the position, the research fellowship will be offered to the next candidate eligible in the classification list, through authorization by the Director, at the express request of the responsible scientist or the Area's coordinator. The starting date of the fellowship shall be agreed with the scientist responsible for the research fellowship.

Art. 9

The contract holders undertake to carry out research activity as foreseen in the contract and in accordance with the research program of the Area. The research activity is carried out in the frame of the research project for which the applicant has been selected. Every year the fellowship holders must present a report of the activity carried out in the previous year to the Area Council. In major case of non-compliance the contract can be terminated, by decision of the Academic Senate and on proposal of the Area Council, heard the counterpart.

The contract is automatically cancelled in the following cases:

- lack or unjustified delay in the starting of the research activity;
 - unjustified suspension of the activity for more than 15 days;
 - serious violation of the incompatibilities established for the award of the research fellowship
- negative evaluation of the research activity expressed by the Area Council.



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

At least 30 days of advanced notice must be given in case of resignation, in which case no penalty will be applied.

Art. 10

A person may not hold a research fellowship, including possible renewals, for more than 4 years. The period in which the person has been enrolled in PhD courses (without a grant) is not taken into account. In accordance with Italian Law no. 240/10 a person cannot be awarded a research fellowship or temporary researcher contract with SISSA or other universities, public, private or telematic nor with other person as specified by art. 1 of the Italian law no. 240/10 for a period exceeding 12 years. To this end the periods of absence due to maternity leave or state of illness are not taken into account.

The research contract renewal is decided by the Academic Senate and, as for the financial coverage, by the Council of Administration, on the basis of the evaluation of the research activity carried out by the contract holder, the state of the art of the research programme, following request of the scientist responsible for the research activity.

Art. 11

SISSA, in accordance with the Italian D.Lgs. 30.06.2003 n.196, undertakes to respect the privacy of all personal data provided by the candidates: all data will be used only for the purposes of the selection and for the drawing up of the relevant contract.

Trieste, 01.08.2012



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Annex 1

Position 1 – **Mathematics Area**

Area: 01 Scienze matematiche e informatiche

Settore concorsuale: 01/A4 Fisica matematica

Scientific focus of the research activity: Integrable Systems, Random matrices and Applications

Scientific Area: Integrable Systems and Applications

Responsible scientist: prof. Boris Dubrovin

Members of the research group: proff. Dubrovin and Grava, dr. Guzzetti

Requirements for the admission to the competitive selection:

- Degree in mathematics;
- Proven experience in Integrable Systems;

Preferential requirement:

- PhD Degree in Mathematics

Evaluation Criteria:

- c.v., publications

Duration of the research program: 5 years (01.01.09-31.12.13)

Duration of the research fellowship: 12 months, renewable

Annual gross employee: € 27.588,00;

Financing by A.AC.FIMA.509-ERC IDEAS FroMPDE prof. Dubrovin CUP: G91J09000090006

Requested by:

Mathematics Area Coordinator



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Position 2 – **Physics Area**

The activity will take place at the Department of Physics at the University of Padova

Area: 02 Scienze fisiche

Settore concorsuale: 02/A2 Fisica delle interazioni fondamentali

Scientific focus of the research activity: Signals of new physics at LHC

Scientific Area: theoretical understanding and study of the phenomenological implications of possible new physics beyond the Standard Model at the TeV scale, with particular reference to the spontaneous breaking of electroweak symmetry and to the signals at the LHC

Responsible scientist: proff. Zwirner (University of Padova), Martinelli

Members of the research group: proff. Zwirner and Masiero (University of Padova), Martinelli and Romanino

Requirements for the admission to the competitive selection:

- PhD Degree in Physics or equivalent foreign qualification
- research experience of not less than 4 years and not more than 10 years in the field of theoretical physics of elementary particles, with emphasis on extensions of the standard model at the Fermi level and their possible signals at the LHC, attested by at least 5 publications in ISI journals.

Duration of the research program: 01.04.11-31.03.16

Duration of the research fellowship: 24 months, not renewable

Annual gross employee: € 36.000,00;

Financing by ERC DamesyFla A.AC.FISI.PART.623 prof.Martinelli CUP: G95E10000420006

Requested by:
SISSA Director



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Position 3 – Neuroscience Area

Area: 11 Scienze storiche, filosofiche, pedagogiche, psicologiche

Settore concorsuale: 11/E1 Psicologia Generale, psicobiologia e psicomatria

Scientific focus of the research activity: experimental protocols with PsyScope XL: creating, testing and data processing

Scientific Area: experimental protocols

Responsible scientist: proff. Martinelli and Bonatti

Members of the research group: Language, Cognition and Development Lab

Requirements for the admission to the competitive selection:

- Degree in psychology, neuroscience or computer science or equivalent;
- Proven experience in management programs of the experiments and preparation of stimuli PsyScope XL; knowledge and use of experimental behavioral methods with children aged 6 to 18 months: Eye Tracker Technique; Head Preference Procedure; Visual Expectation Procedure.

Additional requirements:

Mac, PsyScope, PRAAT, MBROLA, good knowledge of English

Evaluation Criteria:

- professional scientific c.v., degree

Duration of the research fellowship: 12 months, renewable

Annual gross employee: € 19.367,00;

Financing by contributo Regione Friuli Venezia Giulia ex art.23 L.R.26/05 prog. PSYSCOPE XL
A.AC.NSCI.NEUR.478 CUP: G91J08000430007

Approved by:

Neuroscience Area Council on 19.6.12

Academic Senate on 26.6.12

Administrative Council on 03.7.12



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Position 4 – **Neuroscience Area**

Area: 05 Scienze biologiche

Settore concorsuale: 05/D1 Fisiologia

Scientific focus of the research activity: study of GABAergic microcircuits in the hippocampus of transgenic mice NL3 R451C

Scientific Area: physiology, electrophysiology, neurobiology, neuroscience

Responsible scientist: prof. Cherubini

Members of the research group: dr. Zacchi, Cellot, Pizzarelli

Requirements for the admission to the competitive selection:

- Degree or Master Degree in biology, neuroscience, physics or equivalent;
- Proven experience in electrophysiology;
- Experience in patch clamp from brain tissue (slices, organotypic cultures, etc.)

Duration of the research program: 24 months (01.11.12-31.10.14)

Duration of the research fellowship: 24 months, renewable

Annual gross employee: € 23.760,00;

Financing by Telethon GGP 11043 (A.AC.NSCI.BIOF.685 CUP: G91J11000610007) "Mechanisms underlying altered GABAergic signaling in the hippocampus of transgenic mice carrying the R451C mutation of the NL3 gene; an animal model of Autism".

Approved by:

Neuroscience Area Council on 19.6.12

Academic Senate on 26.6.12

Administrative Council on 03.7.12