

**TRANSLATION OF ANNOUNCEMENT FOR 4 RESEARCH POSITIONS
(Decree 142 dated 20.06.2007)**

Art. 1

A public selection, based on academic qualifications and an oral examination, is hereby announced for 4 research positions at the International School for Advanced Studies (SISSA) of Trieste as below mentioned:

A. ELEMENTARY PARTICLE THEORY SECTOR:

2 positions available

A1: «Flavour and LHC physics»

(1 year)

A2: «LHC physics»

(2 years)

B. CONDENSED MATTER THEORY SECTOR:

2 positions available

B1: «Variational Monte Carlo for the Heisenberg model on the triangular lattice»

(1 year)

B2: «Atomic Force Microscopy Applied to the Study of Enzymatic Reactions on Surfaces»

(6 months)

Art. 2

Candidates must be in possession of a PhD Degree or a University Degree and a scientific-professional curriculum which enables them to carry out research. Personnel with permanent positions in Italian Universities, Astronomical and Astrophysical Observatories and Public Research Institutions (in accordance with the Italian law DPCM of 30.12.93, art. 8), E.N.E.A. and A.S.I., are excluded from applying.

Art. 3

The research position “**A1**” in “*Flavour and LHC physics*” in the Elementary Particle Theory Sector lasts 1 year.

The research position “**A2**” in “*LHC physics*” in the Elementary Particle Theory Sector lasts 2 years.

The research position “**B1**” in “*Variational Monte Carlo for the Heisenberg model on the triangular lattice*” in the Condensed Matter Theory Sector lasts 1 year.

The research position “**B2**” in “*Atomic Force Microscopy Applied to the Study of Enzymatic Reactions on Surfaces*” in the Condensed Matter Theory Sector lasts 6 months.

Art. 4

The research fellowship is worth Euro 17.961,00 gross per year and includes costs which have to be met by the Administration. The fellowship is paid monthly. 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. 5

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 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. If compatible with their research assignments, and following written approval by the scientist responsible for the research project, fellowship holders 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. The fellowship holder, who is a State employee, can be given unpaid leave for the period of the fellowship. An authorized absence of up to 30 days does not require the fellowship to be suspended or the absence to be recuperated at a later date. Fellowship holders cannot be assigned teaching duties.

Art. 6

The academic requisites for admission to the competitive selections above mentioned on art.1 are the following:

A. ELEMENTARY PARTICLE THEORY SECTOR:

2 positions available

A1: «Flavour and LHC physics »

(1 year)

- 1) Master Degree in Physics or equivalent;
- 2) PhD Degree in Physics or a documented experience in the above-mentioned research field and, more specifically, in the study of the leptonic and hadronic flavour violation effects in the supersymmetric theories and in their connection with the LHC physics.

A2: «LHC physics»

(2 years)

- 1) Master Degree in Physics;
- 2) PhD Degree in Physics or a documented experience in the study of the fundamental interactions and data analysis.

B. CONDENSED MATTER THEORY SECTOR:

2 positions available

B1: «Variational Monte Carlo for the Heisenberg model on the triangular lattice»

(1 year)

- 1) Master Degree in Physics;
- 2) PhD Degree in Physics or a documented experience in the research field relating to the position.

B2: «Atomic Force Microscopy Applied to the Study of Enzymatic Reactions on Surfaces»

(6 months)

- 1) Master Degree in Physics;
- 2) PhD Degree in Physics or in Nanotechnologies or a documented experience in atomic force Microscopy and interfaces Biochemistry.

Art. 7

The examining boards are nominated by the Director of SISSA, according to the proposal of the Sector Councils concerned. They are composed of three members, one of whom acts as President and one as Secretary, and they are chosen among the Professors and Researchers of the School or from other organisations or experts in the subject.

The examining boards can decide to admit to the oral examination only the candidates who have achieved a mark of at least 21 out of 30 in the evaluation of their academic qualifications. In this case the result of the evaluation of academic qualifications and admission to the oral examination will be notified to the candidates by registered letter. To pass the oral examination the candidate must obtain at least 21 out of 30 points. The evaluation of the academic qualifications, after having established the general criteria, is anyhow carried out before the oral examination. The total mark is obtained by summing the mark obtained from the evaluation of the academic qualifications and the one obtained for the oral examination.

The oral examination will be based on previous studies and research carried out by the candidate as well as on publications, if any.

At the end of the examination the examining board will draw up a report of the examination, including the evaluation criteria, the total mark obtained by each candidate and a classification of those considered eligible, which will be put on the notice boards of the School.

Art. 8

Applications, which have to be addressed to the Director of SISSA, must reach the Human Resources Office of the School, via Beirut 9, 34014 Grignano - Trieste, room 26, II floor, no later than 20.07.2007, at 13:00 p.m.

Applications, will be accepted also by registered letter within the term above mentioned.

In this case, will be taken in consideration the date indicated in the stamp by the receiving postal office.

Applications sent by electronic mail and fax will not be accepted.

In their applications candidates will have to indicate:

1. 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;
2. the Sector of the School and the position for which the candidate is applying (candidates who intend to apply for more than one position should produce specific applications for each position);
3. 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;
4. 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;
5. any other academic qualifications which prove, in particular for candidates who do not have a PhD Degree, their scientific curriculum.

Candidates will have to include, together with the application, their publications, and a detailed list prepared in accordance with international formats and including all the authors.

ORAL EXAMINATION DATES

A. ELEMENTARY PARTICLE THEORY SECTOR:

2 positions available

A1: «Flavour and LHC physics»

(1 year)

Date: 10th September 2007 at 11.00 a.m. (S.I.S.S.A., Room G, Via Beirut 2-4, Grignano – TS)

A2: «LHC physics»

(2 years)

Date: 10th September 2007 at 12.00 a.m. (S.I.S.S.A., Room G, Via Beirut 2-4, Grignano – TS)

B. CONDENSED MATTER THEORY SECTOR:

2 positions available

B1: «Variational Monte Carlo for the Heisenberg model on the triangular lattice»

(1 year)

Date: 30th July 2007 at 14.00 p.m. (S.I.S.S.A., Room A, Via Beirut 2-4, Grignano – Trieste)

B2: «Atomic Force Microscopy Applied to the Study of Enzymatic Reactions on Surfaces»

(6 months)

Date: 25th July 2007 at 10.00 a.m. (S.I.S.S.A., Room A, Via Beirut 2-4, Grignano – Trieste)

This list of dates and times can be considered as an official notification.

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.

Art. 9

Winners will receive notification of the award of the research fellowship by registered letter. Within 20 days from the above-mentioned communication, they will have to send a declaration of acceptance to the Direction of SISSA. Within 30 days from the beginning of the research activity at S.I.S.S.A., Italian and European Community candidates or non-European Community citizens resident in Italy will have to send to the Direction of SISSA the following documents:

- A) personal declaration of birth, citizenship and residence or presentation of an identity document not yet expired; non-European Community citizens have to show their passport;
- B) personal declaration and copy of documents attesting: 1) the possession of a PhD Degree or 2) the completion of a three-year PhD course or 3) the possession of a University Degree including the mark obtained and the date in which the degree was awarded or 4) the possession of an equivalent academic qualification;
- C) copy of the fiscal code issued in Italy;

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

Non-European Community citizens regularly sojourning in Italy can use a substitute declaration exclusively for personal qualities and events certified and attested by public Italian subjects.

In any different case the above stated information have 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.. Moreover within 60 days from the beginning of their research activity winners have to produce a declaration concerning the information requested in points A, B and C 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. The starting date of the fellowship shall be agreed with the scientist responsible in the Sector for the research fellowship.

Art. 10

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, 20th June 2007

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