



“Philosophiae Doctor” Entrance Exams Academic Year 2019/20

The International School for Advanced Studies in Trieste offers post-graduate training to obtain a “Philosophiae Doctor” (Ph.D) degree in the following fields:

Ph.D course	Places Available
Mathematics Area	
Geometry and Mathematical Physics	8
Mathematical Analysis, Modelling, and Applications	8
Neuroscience Area	
Cognitive Neuroscience	7
Functional and Structural Genomics	2
Neurobiology	4
Physics Area	
Astroparticle Physics	4
Astrophysics and Cosmology	5
Physics and Chemistry of Biological Systems	4
Statistical Physics	5
Theoretical Particle Physics	6
Theory and Numerical Simulation of the Condensed Matter	7

The Ph.D programmes, which will be activated after approval of the MIUR as foreseen by D.M. 45/2013, have a duration of 4 years with the possibility of obtaining the title at the end of the third year, and are based on teaching and research activities, with examinations to determine admission from one year to the next and the attainment of the Ph.D degree.

• **Fellowships and other benefits:**

The School awards fellowships for 4 years.

The yearly amount of the fellowships is, at the moment, of € 15.343,28 gross (11,41% tax).

Candidates may also hold fellowships from other sources that may be increased by School funds up to the aforementioned amount.

A contribution towards living expenses of the amount of €100,00 gross per month will be awarded to those who will subscribe a registered rent contract in the Trieste province.

A “laptop contribution” up to € 400,00 may be granted upon request and presentation of the relevant invoice.

A contribution towards the expenses to be enrolled in the health insurance system up to € 198,77 will be granted to non-EU students only.

Students enrolled in the third/fourth year can request a contribution of up to € 1.000,00 for their access to training and/or to create a network of academic contacts to help them in their future career.

A contribution (70% of the amount of the fellowship) may be awarded to students who should be forced to suspend their activity due to illness, maternity or other serious reasons up to 5 months.

• **Requirements:**

The School welcomes applications from young candidates who are going to complete or soon after completion of their undergraduate studies with a strong interest in research.

To be admitted to the School, candidates must be in possession of one of the following degrees **by 31 October, 2019:**

- Italian **laurea** or **laurea specialistica/magistrale** in a scientific subject;
- A University degree obtained abroad and considered equivalent to the aforementioned Italian degrees by the governing bodies of the School (i.e. M.Sc.).

• **Online application:**

An online application must be filled and sent using the procedure available at the page <https://pica.cineca.it/sissa/> (**Dottorati**) by the deadlines shown in the schedule of each Ph.D course.

Candidates should upload the following documents in pdf format:

- curriculum vitae et studiorum;
- a certificate of University examinations taken (with marks);
- a final degree certificate;
- If, at the time of application, candidates should not be yet in possession of a degree certificate, they can submit it at the time of the examination.
European Union candidates can submit a personal declaration instead of the aforementioned certificates.
- a copy of the diploma thesis (if any).

At the end of the procedure, candidates will have to indicate the names and email addresses of two professors that will receive an email requesting to send a recommendation letter through the same online procedure **within two days of the announcement expiry date.**

The candidate will then have to print out the admission request form, sign it and send it through the same online procedure.

• **Entrance Exams:**

All the information about the exams can be found in the Ph.D schedules attached to the present announcement.

In the framework of the present announcement, a selection reserved to non-EU candidates, based on academic qualifications only, is foreseen.

Interview by videoconference

Candidates applying to the Neurobiology, Statistical Physics and the Theory and Numerical Simulation of the Condensed Matter Ph.D courses who intend to sit the interview by videoconference should state, under penalty of exclusion, the chosen platform (Skype or similar) and the user address that will be then used by the Commission for the interview. The candidate must be available at that address, on the day and at the time that will be notified by the Commission via e-mail.

For identification purposes, and under penalty of exclusion from the selection process, each candidate is required to identify themselves showing the same identity document already uploaded as an attachment to the application before the interview begins.

Failure to give personal address, lack of internet connection, unavailability of the candidate at the expected day/time, or failure to show a valid identification document, shall be reason for exclusion from the selection process. This does not apply if the candidate appears in person on the day and at the time of the interview.

SISSA accepts no responsibility in the event that technical reasons should prevent the proper conduct of the oral examination.

Should objective reasons, duly documented, prevent personal participation in the oral test, the candidate who has not sent a request for interview as an attachment to the application, can send it to protocollo@sissa.it four working days before the date set for the oral examination, enclosing a copy of a valid identity document. The Administration will give notice of acceptance of the request.

• Admission:

Candidates admitted to the School will be notified by email and will be asked to be present at the School as follows:

1 October, 2019 for all the Ph.D courses in the Mathematics and Physics Areas

4 November, 2019 for all other Ph.D courses in the Neuroscience Area

Failure to do so without a valid reason will result in the loss of the place and fellowship awarded.

In order to be enrolled and to be awarded the fellowship, admitted candidates must pay a "Regional Tax" of the amount of € 120,00 - € 160,00 per year. Information can be retrieved at <http://www.ardiss.fvg.it/>.

For the purposes of Legislative Decree 30.06.03 n.196, and ss. mm. ii. and of the European Regulation 2016/679 (General Data Protection Regulation), we inform that all data given to this Administration will be processed only for purposes related to and instrumental to the existing contract, in compliance with the provisions in force.

Trieste, 6 February 2019

The Director
Prof. Stefano Ruffo

Physics Area

Ph.D. Course	Selection Process	Session	Deadline Online Procedure	Exams Dates
Astrophysics and Cosmology	Academic qualifications+oral (Admission to oral with 21/30 on Acad. Qualif.)	First Second	12.03.2019 22.08.2019	27.03 – 28.03.2019 11.09 – 12.09.2019
Physics and Chemistry of Biological Systems	Academic qualifications+written+oral (Admission to written with 7/10 on Acad. Qualif. and to oral with 28/40 on written)	First Second	21.03.2019 22.08.2019	08.04 – 09.04.2019 03.09 – 04.09.2019
Astroparticle Physics	Academic qualifications+written+oral (Admission to written with 7/10 on Acad. Qualif. and to oral with 28/40 on written)	Single	12.03.2019	25.03 – 26.03.2019
Statistical Physics	Academic qualifications+oral (also Skype) (Admission to oral with 21/30 on Acad. Qualif.)	First Second	21.03.2019 22.08.2019	08.04 – 11.04.2019 02.09 – 03.09.2019
Theoretical Particle Physics	Academic qualifications+written+oral (Admission to written with 7/10 on Acad. Qualif. and to oral with 28/40 on written)	Single	12.03.2019	27.03 – 28.03.2019
Theory and Numerical Simulation of the Condensed Matter	Academic qualifications+oral (also Skype) (Admission to oral with 21/30 on Acad. Qualif.)	First Second	21.03.2019 22.08.2019	08.04 – 10.04.2019 19.09 – 20.09.2019

Mathematics Area – Entrance Exams

Ph.D. Course	Selection Process	Session	Deadline Online Procedure	Exams Dates
Mathematical Analysis, Modelling and Applications	Academic qualifications+written+oral (Admission to written with 7/10 on Acad. Qualif.) and to oral with 28/40 on written)	First Second	12.03.2019 22.08.2019	27.03 – 28.03.2019 10.09 – 11.09.2019
Geometry and Mathematical Physics	Academic qualifications+written+oral (Admission to written with 7/10 on Acad. Qualif.) and to oral with 28/40 on written)	Single	12.03.2019 22.08.2019	25.03 – 26.03.2019 11.09 – 12.09.2019

Neuroscience Area – Entrance Exams

Ph.D. Course	Selection Process	Session	Deadline Online Procedure	Exams Dates
Functional and Structural Genomics	Academic qualifications+written+oral (Admission to written with 7/10 on Acad. Qualif.) and to oral with 28/40 on written)	Single	12.03.2019 29.08.2019	11.04 – 12.04.2019 19.09 – 20.09.2019
Neurobiology	Academic qualifications+oral (also Skype) (Admission to oral with 21/30 on Acad. Qualif.)	Single	29.08.2019	26.09 – 27.09.2019
Cognitive Neuroscience	Academic qualifications+written+oral (Admission to written with 7/10 on Acad. Qualif.) and to oral with 28/40 on written)	First Second	12.03.2019 29.08.2019	02.05 – 03.05.2019 12.09 – 13.09.2019