

DOCTORAL SCHOOL IN FISICA

GENERAL DESCRIPTION

SUBJECT AREAS:

- main area: FIS/01
- other areas: FIS/02, FIS/03, FIS/04, FIS/05, FIS/07

FIELDS OF RESEARCH:

1. Astrophysics
2. Condensed Matter Physics
3. Medical Physics
4. Subnuclear and Nuclear Physics
5. Theoretical Physics

ORGANIZING DEPARTMENT:

Dip. di Fisica

OTHER DEPARTMENTS:

- Dip. di Fisica teorica
- Dip. di Astronomia

PROGRAMME LENGTH IN YEARS: 3

MAXIMUM PERIOD OF STUDY ABROAD IN MONTHS: 18

OFFICIAL LANGUAGE OF THE SCHOOL: Italian & English

ADMISSION INFORMATION AND REQUIREMENTS

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| PLACES AVAILABLE: | 14 |
| SCHOLARSHIPS: | 10 |
| FUNDING BODIES: | |
| - Università degli Studi di Trieste | 4 |
| - Dip. di Fisica su fondi INFN (finalizzata al Progetto "Fisica teorica e sperimentale sui temi dell'INFN") | 2 |
| - Dip. di Fisica su fondi Sincrotrone Trieste ScpA (finalizzata al Progetto "Attività sperimentale con luce di Sincrotrone") | 2 |
| - Dip. di Fisica su fondi Sincrotrone Trieste ScpA (finalizzata al Progetto "Sviluppo di nuove sorgenti laser ad elettroni liberi") | 1 |
| - Dip. di Fisica su fondi dott.ssa Lia Brautti (finalizzata a svolgere ricerche in "Fisica sperimentale, in memoria del prof. Giulio Brautti.") | 1 |
| <u>Candidates who accept an earmarked scholarship are committed to the pre-assigned topic</u> | |

these scholarships:

- Dip. di Fisica su fondi Sincrotrone Trieste ScpA (finalizzata al Progetto "Attività sperimentale con luce di Sincrotrone") 1
- Dip. di Fisica su fondi dott.ssa Lia Brautti (finalizzata a svolgere ricerche in "Fisica sperimentale, in memoria del prof. Giulio Brautti.") 1

will be advertised on the ADMISSION TO THE DOCTORATES (XXV CICLO DEL DOTTORATO - IV CICLO DELLE SCUOLE) AWARDED BY THE UNIVERSITÀ DEGLI STUDI DI TRIESTE web page only if they are still available, i.e. if they have not been already granted to non-EU residents educated outside Italy who have applied for the 2010 PhD programme of the University of Trieste School of Physics.

NON-FUNDED PLACES

- research grant-holders:
- grant-holders funded by the Italian Ministry of Foreign Affairs permitted to sit the entrance examination in the country of origin
- non-EU citizens resident abroad with the Italian Ministry of Foreign Affairs authorization permitted to sit the entrance examination in the country of origin

ACADEMIC QUALIFICATION REQUIRED: see Announcement (art. 1-Requirements)

DEADLINE FOR COMPLETION OF DEGREE BEFORE APPLICATION:..... 30.10.2009

ADMISSION REQUIREMENTS:

qualifications + written examination + oral interview.

FINAL SCORE: the final score is obtained by combining the scores of the written and oral part of the examination and of the score attributed to the qualifications:..... 120/120

FINAL SCORE (MINIMUM REQUIRED):..... 70/120

SCORE ATTRIBUTED TO THE QUALIFICATIONS: 20/20

QUALIFICATIONS REQUIRED (RELATIVE WEIGHT):

Art. 11 University Rules for Doctorates:

- a. a detailed curriculum vitae et studiorum with the transcript of the exams and scores, plus the degree score (8);
- b. an abstract of the master's degree thesis either in English or in Italian (4)

A detailed research proposal may be required.

as well as

3. (4)

- two letters of recommendation by professors / researchers who know the applicant's work
- a letter of self-presentation, where the applicant specifies the research topic s/he would pursue

4. publications – if any (4).

MINIMUM SCORE REQUIRED FOR THE QUALIFICATIONS:..... no

WRITTEN EXAMINATION SCORE (EXPRESSED AS A PERCENTAGE): 50/50

MINIMUM SCORE REQUIRED FOR THE WRITTEN EXAMINATION :..... 35/50

ORAL INTERVIEW SCORE (EXPRESSED AS A PERCENTAGE):..... 50/50

MINIMUM SCORE REQUIRED FOR THE ORAL INTERVIEW:..... 35/50

DEADLINE FOR RECEIVING CERTIFICATES / PUBLICATIONS: 02.11.2009

ADDRESS TO WHICH CERTIFICATES / PUBLICATIONS SHOULD BE SENT: to be handed in during the written test.

Applicants who have completed their degree within the deadline for applications are allowed to upload their certificates / publications through a web interface instead of sending them in hard copy.

EXAMINATION SCHEDULE:

- WRITTEN EXAMINATION: 02.11.2009 at 09.00 a.m. "Aula A" del Dipartimento di Fisica, Via Valerio, 2 – TRIESTE
POSSIBLE ALTERNATIVE LANGUAGE TO THE ITALIAN FOR THE WRITTEN EXAMINATION: English
- ORAL INTERVIEW: 05.11.2009 at 09.00 a.m. "Aula A" del Dipartimento di Fisica, Via Valerio, 2 – TRIESTE
LANGUAGE/S OTHER THAN THE ITALIAN FOR THE ORAL INTERVIEW: English

CONTACT INFORMATION

DIRECTOR OF THE SCHOOL: Prof. Gaetano Senatore - Dipartimento di Fisica teorica - Università degli Studi di Trieste - tel. 040/2240278 fax 040/224601 e-mail gaetano.senatore@ts.infn.it

VICE-DIRECTOR: Prof. Paolo Camerini - Dipartimento di Fisica - Università degli Studi di Trieste - tel.040/558.3379; fax 040/558.3350 e-mail camerini@trieste.infn.it

WEB SITE: <http://www-dft.ts.infn.it/phd/>

OVERVIEW: Graduate students in physics are actively engaged in research at the forefront of both fundamental and applied physics. The students can choose to work in Astrophysics, Condensed Matter Physics, Medical Physics, Sub-nuclear and Nuclear Physics, Theoretical physics. The goal of the Graduate School is to train flexible professionals who will easily find a job in different fields, including scientific research. Besides being individually trained in a specific research field, the students attend institutional curricular courses as well as courses focused on the topic of their doctoral theses for a total of at least 80 hours of lessons. They will also attend at least two national or international schools. Graduate students are encouraged as well to attend national and international conferences in order to present results of their research. A list of available research topics is found at: <http://www-dft.ts.infn.it/phd/SdDF>. Some of the scholarships carry a title. The awardees of such scholarships are bound to perform research in a pre-assigned area/topic. Info on research topics and people to contact for further details are found at the above-mentioned web page.