

DOCTORAL SCHOOL IN PHYSICS

GENERAL DESCRIPTION

SUBJECT AREAS COVERED BY THE SCHOOL:

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

RESEARCH FIELDS:

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

ORGANIZING DEPARTMENT: Dip. di Fisica

OTHER PARTICIPATING INSTITUTIONS (Italian):

- INAF-Istituto Nazionale di Astrofisica
- Istituto Nazionale di Fisica Nucleare
- ICTP- The Abdus Salam International Centre for Theoretical Physics
- Sincrotrone Trieste S.C.p.A.
- Laboratorio Nazionale TASC –IOM CNR

DURATION: 3 years

MAXIMUM NUMBER OF MONTHS TO BE SPENT ABROAD: 18

OFFICIAL LANGUAGE OF THE SCHOOL: Italian

ADMISSION INFORMATION

NUMBER OF PLACES AVAILABLE: **3**
- SCHOLARSHIPS: 3

- FUNDING BODY/IES:

- Università degli Studi di Trieste.....2

- Dip. di Fisica (INFN grants) earmarked for the Project "Theoretical and experimental physics subjects of INFN interest" 1

Candidates who accept an earmarked scholarship are committed to the pre-assigned topic

ACADEMIC QUALIFICATION REQUIRED: see Announcement (art. 1.1 - Requirements)

DEADLINE FOR COMPLETION OF DEGREE: 24.02.2011

ADMISSION REQUIREMENTS: qualifications + oral interview.

FINAL SCORE: the final score is based on the sum total of marks obtained in the interview plus the points given for qualifications and publications:..... 70/70

MINIMUM FINAL SCORE REQUIRED: 45/70

MAXIMUM NUMBER OF POINTS AWARDED FOR QUALIFICATIONS + PUBLICATIONS: 20

QUALIFICATIONS REQUIRED/RELATIVE WEIGHT:

Art. 11 Rules for Doctorates: all candidates are required to present the following documents, regardless of whether or not a score is assigned to them (see below):

a. a detailed curriculum vitae et studiorum plus degree transcript (list of exams + exam scores + degree score): 8/20

b. a copy of the Master's degree thesis: 4/20

For students with a degree awarded by a non-Italian university, an abstract of the thesis in English or Italian is sufficient.

as well as

1. 4/20:

1.1. Two letters of presentation from scholars/researchers acquainted with the candidate;

1.2. A letter of self-presentation where the candidate outlines his/her research activity;

2. Publications (if any): 4/20.

- Qualifications Evaluation Form (unless this form is presented, qualifications and publications CANNOT be assessed by the Examining Board)

MINIMUM SCORE REQUIRED FOR QUALIFICATIONS/PUBLICATIONS:..... 10/20*

ORAL EXAMINATION MARK OUT OF: 50/50

MINIMUM SCORE REQUIRED FOR INTERVIEW: 35/50

ABSOLUTE DEADLINE FOR RECEIVING CERTIFICATES: 25.02.2011.

ADDRESSES TO WHICH CERTIFICATES SHOULD BE SENT: Segreteria del Dipartimento di Fisica, Via Valerio 2, 34127 TRIESTE

* **ATTENZIONE:** il risultato della valutazione dei titoli ai fini dell'ammissione al colloquio sarà reso noto a partire dal giorno 28.02.2011 sulla pagina web del Dipartimento: <http://physics.units.it/Ricerca/dottfisica.php>

EXAMINATION SCHEDULE:

- INTERVIEW: 04.03.2011 at 09.00 a.m. 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. Paolo Camerini - Dipartimento di Fisica - Università degli Studi di Trieste - tel.040/558.3379; fax 040/558.3350 e-mail camerini@trieste.infn.it
VICE-DIRECTOR: 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

WEB SITE: <http://physics.units.it/Ricerca/Dottorandi.php>

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 the 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.