



UNIVERSITÀ DEGLI STUDI DI TRIESTE

Area dei Servizi Istituzionali
Settore Servizi agli studenti e alla didattica
Ufficio Dottorati di ricerca

8ATTACHMENT 4

LAST REVISED 08/07/2020

DOCTORAL PROGRAMME in PHYSICS (in partnership with the National Institute for Nuclear Physics) ADMISSION INFORMATION

See [Overview](#)

Disclaimer: the tables below provide a quick outline of due dates and required documents. Please refer to the [Notice of Competition](#) for full information on conditions for applying.

REQUIREMENT	DEADLINE
online application and upload of documents	17 June 2020 1:00 p.m. (Italian time)
payment of the admission exam fee	17 June 2020
<i>for Italian degrees:</i> deadline for graduation	31 October 2020
<i>for foreign degrees:</i> deadline for graduation	12 October 2020
upload of foreign diploma or certificate	17 June 2020 (if available after 17 June, please send it by email to dottorati@amm.units.it within 15 October)

Documents to be uploaded (*) NOTE: applications sent without the mandatory attachments will not be processed	Mandatory -- Optional
1. proof of identity (eg passport)	mandatory
2. curriculum vitae et studiorum , focusing on experience prior to the PhD and on degree thesis activity (description of techniques acquired, personal contribution, publication, etc)	mandatory
3. university qualifications (Master level): a. for graduates and near-graduates in Italy: I) self-certification of all examinations and relevant scores of second-cycle degree programme, i.e. <i>Laurea magistrale (LM)</i> , <i>Laurea specialistica (LS)</i> or <i>Laurea vecchio ordinamento (LVO)</i> II) self-certification of LM, LS or LVO final mark (only for graduates).	mandatory

<p>Self-certifications can be drafted using the form available online, or using the online services of the concerned University.</p> <p>b. for graduates and near-graduates from abroad:</p> <p>I) Transcript of Records including examinations and scores obtained. Where applicable, a Diploma Supplement can be submitted instead of the Transcript.</p> <p>II) Master diploma/certificate or equivalent qualification giving access to the Doctoral Programme (only for graduates).</p> <p>The foreign qualification must be comparable by level and course duration (and, where applicable, by subject area) with the required Italian degree and allow access to the PhD in the issuing country;</p> <p>III) Translation into Italian or English of the above documents, if issued in a different language.</p>	
<p>4. university qualifications (Bachelor level):</p> <p>Note: please upload these items through the section called "Management of qualifications and documents for the evaluation".</p> <p>a. for graduates in Italy: self-certification of examinations and relevant scores of first-cycle degree, where applicable; Self-certification can be drafted using the form available online, or using the online services of the issuing University,.</p> <p>b. for graduates from abroad: Transcript of Records of Bachelor degree or equivalent first-cycle qualification (if applicable) including examinations and scores obtained. A Diploma Supplement can be submitted instead of the Transcript. Please note that if the certificates are issued in a language other than English or Italian, a translation must be included, along with the original document.</p>	optional
<p>5. thesis abstract (Master level)</p> <p>It must be submitted by both graduates and near-graduates, in English or Italian. We recommend to use the "Thesis Abstract form", as failure to do so may lead to exclusion.</p>	mandatory
<p>6. motivational letter including statement of research interests</p> <p>This document, to be written in free format, cannot exceed one page (A4-paper size). The interview will focus primarily on the candidate's statement of research.</p>	mandatory
<p>7. two letters of reference from lecturers / researchers</p> <p>NOTE: the letters must be sent directly by the referees by email (do <u>not</u> upload them) to dottorato.fisica@units.it (please write in the subject: Letter concerning "Surname Name") before 22 June 2020. Be reminded that the deadline for uploading all other items remains 17 June, 1 pm.</p>	optional (*) exception: submission via email

Applicants who hold a foreign degree and have never enrolled at this or other University in Italy must also upload their Secondary School certificate.

PLACES AND SCHOLARSHIPS AVAILABLE			
Total number of non-funded places (code: SB)		3	
Total number of funded places		15 16	Note: - Candidates who accept a subject-specific scholarship are committed to the project topic. - Study/research abroad that entitles to a scholarship increase: 0 to 18 months for each PhD student (over 3 years)
Scholarships (code, total number and description)	M/1-3	3	Scholarship MUR/University The topic must be consistent with the PhD sectors/research lines Project link: https://df.units.it/it/ricerca/ambiti/gruppilineediricerca

C/4-6	3	Scholarship INFN (National Institute of Nuclear Physics) The topic must be consistent with the PhD sectors/research lines Project link: https://df.units.it/it/ricerca/ambiti/gruppilineediricerca
D/7	1	Scholarship financed by the Department of Physics with funds from Elettra – Sincrotrone Trieste Project title: “Experiments with Synchrotron Radiation” Project link: https://www.elettra.eu/ Note: number of months abroad for the purpose of scholarship increase: max 6
D/8	1	Scholarship financed by the Department of Physics with funds from Elettra – Sincrotrone Trieste Project title: “Development of novel free electron laser radiation sources” Project link: https://www.elettra.eu/ Note: number of months abroad for the purpose of scholarship increase: max 6
D/9	1	Scholarship financed by the Department of Physics with funds from UE H2020-ERC-2019-CoG S-BaXIT Project “Scattering-Based X-ray Imaging and Tomography” G.A. n. 866026 - Prof. Thibault, and funds from Elettra – Sincrotrone Trieste. Project title: “Coherent Diffraction Imaging” Principal investigator: prof. Pierre Thibault (pthibault@units.it) Note: number of months abroad for the purpose of scholarship increase: max 6
MD/10	1	Scholarship MUR/University co-financed by the Department of Physics with funds from INAF–Astronomical Observatory of Trieste, and funds from PRIN MIUR no. 2017PH WAT Project title: “Black Hole outflows and the Baryon Life Cycle of Galaxies” Principal investigator: Dr. Fabrizio Fiore (fabrizio.fiore@inaf.it) Project link: http://blackholewinds.inaf.it Note: number of months abroad for the purpose of scholarship increase: max 3
D/11	1	Scholarship financed by the Department of Physics with funds from INAF–Astronomical Observatory of Trieste. Project title: “Advanced numerical methods to study the formation and evolution of cosmic structure at high redshift and comparison with observed data” Principal investigator: Dr Giuliano Taffoni (giuliano.taffoni@inaf.it) Note: number of months abroad for the purpose of scholarship increase: max 3
D/12	1	Scholarship financed by the Department of Physics with funds from ICTP - The Abdus Salam International Centre For Theoretical Physics - UNESCO The project must be consistent with the topics covered by ICTP. The fellowship is reserved for candidates from countries NOT included in the list of the World Bank “High-income economies: http://data.worldbank.org/about/country-and-lending-groups In case of equal evaluation, preference will be given to candidates having completed one of the following (supporting documentation needs to be uploaded): - ICTP Diploma Programme; - Advanced Master Programme in Medical Physics: a joint Programme between ICTP and the University of Trieste - Master in High-performance Computing: a joint Programme between ICTP and SISSA

		Project link: http://www.ictp.it/research.aspx Note: number of months abroad for the purpose of scholarship increase: max 3
MD/13	1	Scholarship MIUR/University co-financed by the Department of Physics with funds from MIUR PRIN 2017 EXC-INS, Project n. 2017BZPKSZ CUP J98D17000030001 Project title: "Ultrafast studies of THz emission in optical quenches of 2D excitonic insulators" Principal investigator: prof. Daniele Fausti (dfausti@units.it) Note: number of months abroad for the purpose of scholarship increase: max 3
MD/14	1	Scholarship MIUR/University co-financed by the Department of Physics funded by MIUR – PRIN 2017 FERMAT, Project n. 2017KFY7XF CUP J98D17000020001 Project title: "2D materials at near-ambient pressure: a fundamental spectroscopic approach" Principal investigator: prof. Erik Vesselli (evesselli@units.it) Note: number of months abroad for the purpose of scholarship increase: max 3
MD/15	1	Scholarship MIUR/University co-financed by the Department of Physics with funds from Chalmers University of Technology - Department of Space, Earth and Environment (Sweden) Project title: "The Origin of Supermassive Black Holes in the Early Universe" Principal investigator: prof. Jonathan Tan (jonathan.tan@chalmers.se), and prof. Pierluigi Monaco (monaco@oats.inaf.it) Note: number of months abroad for the purpose of scholarship increase: max 12
D/16	1	Scholarship financed by the Department of Physics with funds from INAF -- funds by Project ESPRESSO Project title: "Cosmology with the espresso spectrometer" Principal investigator: prof. Stefano Cristiani (stefano.cristiani@inaf.it) Project link: https://web.units.it/dottorato/fisica/sites/fisica/files/all_pagb/ScienzeESPRESSO_2020.pdf and https://www.eso.org/sci/facilities/paranal/instruments/espresso.html Note: number of months abroad for the purpose of scholarship increase: max 3
RESERVED PLACES		
RD	1	Place reserved for recipients of fellowships from international mobility programmes. Position for candidates of H2020-MSCA-ITN-2019 (Innovative Training Networks - ITN), funded by the Project "SMART-X" - Study of carrier transport in Materials by time-Resolved spectroscopy with ultrashort soft X-ray light, Grant Agreement 860553". The candidate will be selected based on the recruitment process as required by the SMART-X Project. Host institutions and in charge of the training: University of Trieste, ELETTRA-SINCROTRONE Trieste. The deadline for applications and other details will be published on: - https://euraxess.ec.europa.eu/jobs - https://www.nature.com/naturecareers - www.smart-x.eu (in progress)

as well as on the websites of the institutions concerned and on the dedicated webpages of social networks, eg Linked-In.

Principal investigators: Dr. Claudio Masciovecchio and Prof. Daniele Fausti.

Enrolment is subject to verification of the candidate's qualifications by the Academic Board of the PhD Programme.

TERMS AND CONDITIONS

Required academic qualifications (see art. 2 of the Notice of Competition)

"Lauree vecchio ordinamento"
(awarded in Italy before the D.M.
509/99 reform of the University system) All

"Lauree specialistiche" (LS) awarded in Italy All

"Lauree magistrali" (LM) awarded in Italy All

Selection criteria **Qualifications + oral interview**
Maximum final score: **70** - minimum final score required for eligibility **40**

Evaluation criteria **Qualifications** (maximum score **20** – minimum final score required **10**):

- curriculum vitae et studiorum including any publications maximum score **4**
- thesis abstract maximum score **2**
- exams taken maximum score **6**
- motivational letter / statement of research maximum score **4**
- 2 letters of reference/recommendation maximum score **4**

Interview: maximum score **50** – minimum final score required **30**

Note: The Examination Panel may decide to adopt evaluation subcriteria.

The [admission results](#) will be published online. The admission process includes the following steps: Assessment of foreign degrees >> Assessment of other qualifications >> Interview. The merit list will be published after approval by the Rector.

Examination schedule	Assessment of qualification	from 29 June 2020
	Interview	13 July 2020 at 09:00 a.m. (Italian time) at the University of Trieste – room 116 ("cala riunioni"), 1st floor – Department of Physics (building F), Via Valerio, 2 – TRIESTE. The Examination Panel will also interview candidates on subsequent dates.
	Language(s) of the interview	Italian English
	Language(s) tested in the interview	English (level of knowledge required: CEFR B2)
	Videconferencing interview	<p style="text-align: center;">---</p> <p>Due to the current COVID-19 outbreak, the Examination Panel has decided that the interview will be administered only remotely, i.e. by videoconferencing, as provided in this link.</p> <p>At the interview, candidates must show a current and valid identity document (eg passport).</p> <p>Upon request of the candidates, the interview may be carried out by videoconferencing. The form is available on "Videconferencing interview" and must be uploaded within the application deadline.</p> <p>Candidates wishing to take the interview remotely and failing to upload the appropriate form for videoconferencing within the deadline, can send their</p>

~~request by email to dottorato.fisica@uniu.it up to 4 working days before the date of the interview, stating the grounds for their late request.~~
~~The Examination Panel will meet on 13 July 2020.~~
~~The Panel may arrange with the candidate a different time for the interview.~~

SUPPLEMENTARY INFORMATION (following publication of the Notice of Competition)

11 May 2020	Added D/16 scholarship – total no. of scholarships: 16
8 July 2020	Interview by videoconference only