



# UNIVERSITÀ DEGLI STUDI DI TRIESTE

Area dei Servizi Istituzionali  
Unità di staff Dottorati di ricerca

ATTACHMENT 6

LAST REVISED 04/03/2022

## DOCTORAL PROGRAMME in 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	<b>7 June 2021</b> <b>1:00 p.m. (Italian time)</b>
payment of the admission exam fee	<b>7 June 2021</b>
deadline for graduation	<b>31 October 2021</b>
upload of foreign diploma or certificate	<b>7 June 2021</b> (if available after 7 June, please send it by email to <a href="mailto:dottorati@amm.units.it">dottorati@amm.units.it</a> within 10 days of graduation – see art. 3 of the Call)

<b>Documents to be uploaded (*)</b> NOTE: applications sent without the mandatory attachments will not be processed	Mandatory -- Optional
<b>1. proof of identity</b> (eg passport)	<b>mandatory</b>
<b>2. curriculum vitae et studiorum</b> , focusing on experience prior to the PhD and on degree thesis activity (description of techniques acquired, personal contribution, publication, etc)	<b>mandatory</b>
<b>3. university qualifications (Master level):</b> a. for graduates and near-graduates <b>in Italy:</b>	<b>mandatory</b>

<p>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></p> <p>II) self-certification of LM, LS or LVO final mark (only for graduates).  <a href="#">Self-certifications</a> 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 <b>from abroad</b>:</p> <p>I) Transcript of Records including examinations and scores obtained. Where applicable, a <b>Diploma Supplement</b> 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).  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><b>4. university qualifications (Bachelor level):</b></p> <p><b>It is highly recommended to upload the documentation concerning the first-cycle degree (eg Bachelor), as it will be considered for evaluation:</b></p> <p>Note: please upload these items through the section called "Management of qualifications and documents for the evaluation".</p> <p>a. for graduates <b>in Italy</b>:  self-certification of examinations and relevant scores of first-cycle degree, where applicable; <a href="#">Self-certification</a> can be drafted using the form available online, or using the online services of the issuing University;</p> <p>b. for graduates <b>from abroad</b>:  Transcript of Records of Bachelor degree or equivalent first-cycle qualification (if applicable) including examinations and scores obtained. A <b>Diploma Supplement</b> can be submitted instead of the Transcript.  <b>Please note</b> that if the certificates are issued in a language other than English or Italian, a <b>translation</b> must be included, along with the original document.</p>	optional
<p><b>5. thesis abstract (Master level)</b></p> <p>It must be submitted by both graduates and near-graduates, in English or Italian.  We recommend to use the "<a href="#">Thesis Abstract form</a>", as failure to do so may lead to exclusion.</p>	<b>mandatory</b>
<p><b>6. two letters of reference</b> from lecturers / researchers</p> <p><b>NOTE:</b> the letters must be sent directly by the referees by email (do <u>not</u> upload them) to <a href="mailto:dottorato.fisica@units.it">dottorato.fisica@units.it</a> (please write in the subject: Letter concerning "Surname Name") <b>before 7 June 2021 1:00 p.m.</b> (Italian time)</p>	optional (*) <i>exception: submission via email</i>
<p><b>7. research project:</b> candidates must submit a project consistent with the PhD sectors or research lines.  We recommend to use the "<a href="#">Research Project form</a>" available online for the project drafting</p>	<b>mandatory</b>

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

<p><b>Total number of non-funded places</b>      <b>3</b>  (code: SB)</p>	<p><b>Note:</b></p> <ul style="list-style-type: none"> <li>- Candidates who accept a subject-specific scholarship are committed to the project topic.</li> <li>- Study/research abroad that entitles to a scholarship increase: <b>0 to 18 months</b> for each PhD student (over 3 years) if not otherwise stated in each scholarship description.</li> </ul>
<p><b>Total number of funded places</b>      <b>14</b></p>	

			The increase can be granted only for uninterrupted periods of no less than 60 days
<i>Scholarships (code, total number and description)</i>	M/1-3	3	Scholarship MUR/University The topic must be consistent with the PhD sectors/research lines Project link: <a href="https://df.units.it/it/ricerca/ambiti/gruppilineediricerca">https://df.units.it/it/ricerca/ambiti/gruppilineediricerca</a>
	D/4-5	2	Scholarship financed by the Department of Physics with funds from Istituto Nazionale di Fisica Nucleare (INFN) Project title: "Theoretical and experimental physics subjects of interest for INFN" Project link: <a href="https://www.ts.infn.it/com/ricerca">https://www.ts.infn.it/com/ricerca</a> Note: number of months abroad for the purpose of scholarship increase: max 6
	D/6	1	Scholarship financed by the Department of Physics with funds from Elettra – Sincrotrone Trieste Project title: "Experiments with synchrotron radiation" Project link: <a href="https://www.elettra.eu/">https://www.elettra.eu/</a> Note: number of months abroad for the purpose of scholarship increase: max 6
	D/7	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: <a href="https://www.elettra.eu/">https://www.elettra.eu/</a> 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 INAF–Astronomical Observatory of Trieste. Project title: "Themes of interest for Inaf - Trieste astronomical observatory" The proposals of themes and supervisors are available on the web page: <a href="http://www.oats.inaf.it/index.php/it/2014-09-12-13-06-23/dottorati.html">http://www.oats.inaf.it/index.php/it/2014-09-12-13-06-23/dottorati.html</a> Note: number of months abroad for the purpose of scholarship increase: max 3
	D/9	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 research fields of interest to ICTP. The fellowship is reserved for candidates from countries <b>NOT</b> included in the list of the World Bank "High-income economies: <a href="http://data.worldbank.org/about/country-and-lending-groups">http://data.worldbank.org/about/country-and-lending-groups</a> 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: <a href="http://www.ictp.it/research.aspx">http://www.ictp.it/research.aspx</a> Note: number of months abroad for the purpose of scholarship increase: max 3
MD/10	1	Scholarship MUR/University co-financed by the Department of Physics funded by CNR-IOM with funds from MIUR - NFFA - Roadmap ESFRI	

		<p>Project title: "Dynamics of phase transition in solids studied with pump-probe optical and photoelectron spectroscopy methods (NFFA-sprint beamline, Basovizza campus)"</p> <p>Principal investigators: dott. Riccardo Cucini (<a href="mailto:cucini@iom.cnr.it">cucini@iom.cnr.it</a>) and Prof. Silvio Modesti (<a href="mailto:modesti@ts.infn.it">modesti@ts.infn.it</a>)</p> <p>Link al progetto: <a href="https://www.trieste.nffa.eu/">https://www.trieste.nffa.eu/</a></p> <p>Note: number of months abroad for the purpose of scholarship increase: max 3</p>
MD/11	1	<p>Scholarship MIUR/University co-financed by the Department of Physics funded by Progetto UE H2020-ERC-2019-CoG S-BaXIT "Scattering-Based X-ray Imaging and Tomography" G.A. n. 866026 - Prof. Thibault</p> <p>CUP J94I20000700006</p> <p>Project title: "X-ray scattering in full-field imaging and near-field ptychography"</p> <p>Principal investigator: prof. Pierre Thibault (<a href="mailto:pthibault@units.it">pthibault@units.it</a>)</p> <p>Note: number of months abroad for the purpose of scholarship increase: max 6</p>
MD/12	1	<p>Scholarship MIUR/University co-financed by the Department of Physics funded by Progetto UE H2020-ERC-2019-CoG S-BaXIT "Scattering-Based X-ray Imaging and Tomography" G.A. n. 866026 - Prof. Thibault</p> <p>CUP J94I20000700006</p> <p>Project title: "X-ray dark-field tomography"</p> <p>Principal investigator: prof. Pierre Thibault (<a href="mailto:pthibault@units.it">pthibault@units.it</a>)</p> <p>Note: number of months abroad for the purpose of scholarship increase: max 6</p>
MD/13	1	<p>Scholarship financed by the Department of Physics funded by Progetto UE H2020- UE H2020 ERC StG-2020 Prof. SCAZZA n. 949438 "OrbiDynaMIQs"</p> <p>Project title: "Ultracold ytterbium atoms in programmable optical microtraps for quantum simulations of highly correlated states of matter with single quantum control"</p> <p>Principal investigator: dott. Francesco Scazza (<a href="mailto:francesco.scazza@units.it">francesco.scazza@units.it</a>)</p> <p>Note: number of months abroad for the purpose of scholarship increase: max 3</p>
MD/14	1	<p>Scholarship financed by the Department of Physics with funds from Chalmers University of Technology - Department of Space, Earth and Environment (Svezia)</p> <p>Project title: "The origin of supermassive black holes in the early universe and implications for galaxy evolution and gravitational wave astronomy"</p> <p>The student will visit Chalmers University to work directly in Tan's group for two 6-month periods in years 2 and 3</p> <p>Principal investigators: prof. Jonathan Tan (<a href="mailto:jonathan.tan@chalmers.se">jonathan.tan@chalmers.se</a>), e prof. Pierluigi Monaco (<a href="mailto:monaco@oats.inaf.it">monaco@oats.inaf.it</a>)</p> <p>Note: number of months abroad for the purpose of scholarship increase: max 12</p>
COM/15		<p>Scholarship funded by <i>Agenzia per la Coesione Territoriale</i> to conduct research, in collaboration with the Municipality of Paluzza (Udine), on a topic related to the "<a href="#">National Strategy for Inner Areas</a>".</p> <p>Principal investigator: prof. Dario Giaiotti</p> <p>Note: number of months abroad for the purpose of scholarship increase: max 3</p>

**RESERVED PLACES**

RD	<p>1 Place reserved for recipients of fellowships from international mobility programmes.</p> <p>Position for candidates of H2020-MSCA-ITN-2020 (Innovative Training Networks - ITN), funded by the Project "COPERMIX" - Control Prediction and Learning in Mixing processes, Grant Agreement 956457" on the topic "Learning to navigate in complex odor landscapes".</p> <p>The candidate will be selected based on the recruitment process as required by the COPERMIX Project. Host institutions and in charge of the training: University of Trieste, International Center for Theoretical Physics.</p> <p>The deadline for applications and other details will be published on: <a href="https://euraxess.ec.europa.eu/jobs">https://euraxess.ec.europa.eu/jobs</a></p> <p>Principal investigators: dott. Antonio Celani e prof. Edoardo Milotti.</p> <p>Enrolment is subject to verification of the candidate's qualifications by the Academic Board of the PhD Programme.</p>
----	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

TERMS AND CONDITIONS	
<i>Required academic qualifications (see art. 2 of the Notice of Competition)</i>	
<i>"Lauree vecchio ordinamento" (awarded in Italy before the D.M. 509/99 reform of the University system)</i>	All
<i>"Lauree specialistiche" (LS) awarded in Italy</i>	All
<i>"Lauree magistrali" (LM) awarded in Italy</i>	All
<i>Selection criteria</i>	<p><b>Qualifications + oral interview</b></p> <p>Maximum final score: <b>100</b> - minimum final score required for eligibility <b>50</b></p>
<i>Evaluation criteria</i>	<p><b>Qualifications</b> (maximum score <b>30</b> – minimum final score required <b>15</b>):</p> <ul style="list-style-type: none"> <li>• curriculum vitae et studiorum including any publications <span style="float: right;">maximum score <b>6</b></span></li> <li>• thesis abstract <span style="float: right;">maximum score <b>6</b></span></li> <li>• exams taken <span style="float: right;">maximum score <b>9</b></span></li> <li>• research project <span style="float: right;">maximum score <b>5</b></span></li> <li>• 2 letters of reference/recommendation <span style="float: right;">maximum score <b>4</b></span></li> </ul> <p><b>Interview:</b> maximum score <b>70</b> – minimum final score required <b>35</b></p>
<p>Note: The Board of Examiners may decide to adopt evaluation subcriteria.</p> <p>The <a href="#">admission results</a> will be published online. The admission process includes the following steps: Assessment of foreign degrees &gt;&gt; Assessment of other qualifications &gt;&gt; Interview. The merit list will be published following the Doctoral Board decision on the assignment of places and scholarships.</p>	
<i>Examination schedule</i>	<p><b>Assessment of qualification</b> <span style="float: right;"><b>from 21 June 2021</b></span></p> <p><b>Interview</b> <span style="float: right;"><b>12 July 2021 at 09:30 a.m. (Italian time)</b></span> at the University of Trieste – room 116 ("sala riunioni"), 1<sup>st</sup> floor - Department of Physics (building F), Via Valerio, 2 – TRIESTE</p> <p>The Board of Examiners will also interview candidates on subsequent dates, that will be published on this <a href="#">link</a></p> <p style="text-align: center;">---</p> <p><del>Due to the current COVID-19 outbreak, the Board of Examiners has decided that the interview might be administered <b>only remotely</b>, i.e. by videoconferencing, as provided in this <a href="#">link</a>.</del></p>

<i>Language(s) of the interview</i>	Italian English
<i>Language(s) tested in the interview</i>	English (level of knowledge required: <a href="#">CEFR B2</a> )
<i>Videoconference interview</i>	<p>Upon request of the candidates, the interview may be carried out by videoconference. The form is available on "<a href="#">Videoconference interview</a>" 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 request by email to <a href="mailto:dottorato.fisica@units.it">dottorato.fisica@units.it</a> up to 4 working days before the date of the interview, stating the grounds for their late request.</p> <p>The Board of Examiners may arrange with the candidate a different time for the interview.</p>

<b>SUPPLEMENTARY INFORMATION (following publication of the Notice of Competition)</b>	
05/07/2021	Update interview
13/01/2022	One additional scholarship (COM/15)