



Unione europea  
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REGIONE AUTONOMA  
FRIULI VENEZIA GIULIA



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

ATTACHMENT 4

LAST REVISED 24/10/2018

**PhD IN  
PHYSICS  
(under the agreement with the National Institute for Nuclear Physics)  
ADMISSION INFORMATION**

Overview [click here](#)

Website: <http://web.units.it/dottorato/fisica/en>

Email: [dottorato.fisica@units.it](mailto:dottorato.fisica@units.it)

**DISCLAIMER:** this is only an overview including the main deadlines and a checklist of items to be submitted. Exhaustive information on how to apply for admission is published in the Admission Announcement posted on the web page <http://www2.units.it/dott/en/> >> Admission Announcement.

REQUIREMENT	DEADLINE
online application and upload of documents	<b>19 June 2017 1:00 p.m. (Italian time)</b>
payment of the admission exam fee	<b>19 June 2017</b>
for Italian degrees: deadline for graduation	<b>31 October 2017</b>
for foreign degrees: the deadline for graduation is set at an earlier date to enable the Examining Board to assess the degree equivalence	<b>30 September 2017</b>
submission of foreign degree diploma/certificate (if available by 19 <sup>th</sup> June, please upload it; beyond that date, please email to <a href="mailto:dottorati@amm.units.it">dottorati@amm.units.it</a> )	<b>10 days after graduation (and in any event not later than 10<sup>th</sup> October 2017)</b>

<b>Documents to be uploaded</b> (*) <i>exception: submission via email (see point 6)</i>	Mandatory / Optional
1. <b>proof of identity</b>	mandatory
2. <b>curriculum vitae et studiorum</b> , focusing experience prior to the PhD	mandatory
3. <b>university qualifications:</b> a for graduates or near-graduates in Italy: self-certification of the exams and scores of both first and second level degrees or single-cycle degree Self-certification can be drafted using the appropriate form available on <a href="http://www2.units.it/dott/en/?file=DottBandi.inc">http://www2.units.it/dott/en/?file=DottBandi.inc</a> >> application forms, or – where applicable – using the University's online services. b for graduates from abroad: scan of the original - if available – Bachelor and Master diploma (or comparable qualification) and "Diploma Supplement" (DS) thereof. If the university does not issue the DS, the applicant needs to submit, for each qualification, a Transcript of Records certifying the date of graduation, the exact name of the awarded qualification in the original language, exams and scores;	mandatory

<p>c. for near-graduates from abroad: scan of the original Bachelor diploma (or comparable qualification) and, both for Bachelor and Master, a Transcript of Records certifying the exams and scores. Certificates must give evidence of the exact name of the qualification (awarded or to be awarded) in the original language.</p> <p><b>Please note</b> that if all documents as described in points b. and c., are issued in a language other than English or Italian, a translation must be included, along with the original document (see par. 4.2 of the Admission Announcement).</p>	
<p><b>4. degree thesis or dissertation</b></p> <p>a. for graduates and near-graduates: abstract of the degree thesis (i.e. Master degree or comparable qualification) to be drawn up according to the template available on <a href="http://www2.units.it/dott/en/?file=DottBandi.inc">http://www2.units.it/dott/en/?file=DottBandi.inc</a> &gt;&gt; Application forms</p> <p>b. degree thesis activity</p>	mandatory
<p><b>5. research project</b></p> <p><b>Candidates applying for scholarships co-funded by the European Social Fund</b> (please tick the relevant box on the form) must submit a research project which needs to be consistent with the ESF strategy, as well as with the research area of the PhD course. Successful candidates are bound to carry out the proposed research project, in accordance with the ESF requirements and other rules as specified in the Admission Announcement. Candidates must use only the form available on the Doctorate website <a href="http://www2.units.it/dott/en/?file=DottBandi.inc">http://www2.units.it/dott/en/?file=DottBandi.inc</a> &gt;&gt; Application Forms.</p>	mandatory only for ESF applicants
<p><b>6. a a statement of purpose / self-presentation</b></p> <p>b. two <b>letters of reference / recommendation</b> from lecturers / researchers</p> <p><b>NOTE:</b> recommendation to be sent directly by the referees to the email account <a href="mailto:dottorato.fisica@units.it">dottorato.fisica@units.it</a> (subject: "Letter concerning - Surname Name) following the template downloadable from <a href="http://web.units.it/dottorato/fisica/en/allmodulistica">http://web.units.it/dottorato/fisica/en/allmodulistica</a> &gt;&gt; Recommendation letter <b>before 19 June 2017 1:00 pm</b></p>	mandatory (*)
<p><b>7. publications</b></p>	optional

PLACES, SCHOLARSHIPS, RESEARCH GRANTS AVAILABLE			
<i>Total number of places available (excluding reserved places - see codes below: R/2 - R/3 - R/4)</i>		<b>16</b>	
<i>without scholarship – cod [SB(A4)]</i>		1	
<i>with scholarship (A1)</i>		15	
<i>Scholarships/Research grants available with indication of their code, total number and funding body</i>			
	MD/1	1	<p><b>Note:</b></p> <ul style="list-style-type: none"> <li>- Candidates who accept an earmarked scholarship are committed to the pre-assigned topic.</li> <li>- Attendance abroad that entitles to a scholarship increase - min. max. of months for each PhD student (over 3 years) are 0 - 18</li> </ul> <p>Scholarship MIUR/University co-financed by the Department of Physics Project title: "RELATIVISTIC COLLAPSE MODELS AND NOVEL CONSTRAINTS IN TESTING THE LARGE SCALE LIMITS OF QUANTUM MECHANICS"</p> <ul style="list-style-type: none"> <li>- Progetto UE-H2020-FETOPEN-2016-2017 n. 766900 "TEQ Testing the Large-Scale limit of Quantum .Mechanics"</li> <li>- CUP J96J17000370006</li> </ul> <p>Note: number of months abroad for the purpose of scholarship increase: 18. Principal investigator: dr. Angelo Bassi – mailto: <a href="mailto:bassi@ts.infn.it">bassi@ts.infn.it</a></p>
	M/2	1	<p>Scholarship MIUR/University The topic must be consistent with the PhD sectors/research lines Project link: <a href="http://df.units.it/it/ricerca/ambiti/gruppilineediricerca">http://df.units.it/it/ricerca/ambiti/gruppilineediricerca</a></p>

FSE-EUS/3-4	2	ESF – EUSAIR/EUSALP scholarship funded by the University resources of the Region Friuli Venezia Giulia - European Social Fund - Operational Programme 2014/2020 The topic must be consistent with the PhD sectors/research lines and with the EUSAIR/EUSALP areas 12 months must be spent abroad in one of the EUSAIR/EUSALP areas Link to research lines: <a href="http://df.units.it/ricerca/ambiti/gruppilineediricerca">http://df.units.it/ricerca/ambiti/gruppilineediricerca</a>
C/5-7	3	INFN ISTITUTO NAZIONALE DI FISICA NUCLEARE The topic must be consistent with the PhD sectors/research lines Project link: <a href="http://df.units.it/ricerca/ambiti/gruppilineediricerca">http://df.units.it/ricerca/ambiti/gruppilineediricerca</a>
MD/8	1	Scholarship MIUR/University co-financed by the Department of Physics Project title: "CONCEPT: CONTrolling quantum CohErent matter Phases by THz light pulses" - Progetto MIUR SIR 2014 RBSI14ZIY2 CONCEPT dott. FAUSTI - CUP J92I15000300001 Note: number of months abroad for the purpose of scholarship increase: 0. The funder will cover directly the travel expenses abroad related to PhD activities Principal investigator: dr. Daniele Fausti – mailto: <a href="mailto:daniele.fausti@elettra.eu">daniele.fausti@elettra.eu</a>
D/9	1	Scholarship financed by the Department of Physics funded by ELETTRA – SINCROTRONE TRIESTE S.C.p.A. Project title: "Experiments with Synchrotron Radiation" Note: number of months abroad for the purpose of scholarship increase: 12 Project link: <a href="https://www.elettra.trieste.it/">https://www.elettra.trieste.it/</a>
D/10	1	Scholarship financed by the Department of Physics funded by ELETTRA – SINCROTRONE TRIESTE S.C.p.A. Project title: "Development of novel free electron laser radiation sources" Note: number of months abroad for the purpose of scholarship increase: 12 Project link: <a href="https://www.elettra.trieste.it/">https://www.elettra.trieste.it/</a>
D/11	1	Scholarship financed by the Department of Physics funded by INAF - ISTITUTO NAZIONALE DI ASTROFISICA Project title: "Frontier astrophysics with the ESPRESSO high-resolution spectrograph: cosmology of the inter-galactic medium, fundamental physics, extrasolar planets" Note: number of months abroad for the purpose of scholarship increase: 0. The funder will cover directly the travel expenses abroad related to PhD activities Principal investigator: Dr. Stefano Cristiani – <a href="mailto:cristiani@oats.inaf.it">cristiani@oats.inaf.it</a> Project link: <a href="http://www.eso.org/public/teles-instr/paranal-observatory/vlt/vlt-instr/espresso/">http://www.eso.org/public/teles-instr/paranal-observatory/vlt/vlt-instr/espresso/</a>
D/12	1	Scholarship financed by the Department of Physics funded by INAF - ISTITUTO NAZIONALE DI ASTROFISICA Project title: "Cosmological simulations of galaxy clusters" Note: number of months abroad for the purpose of scholarship increase: 0. The funder will cover directly the travel expenses abroad related to PhD activities Principal investigator: Dr Elena Rasia – <a href="mailto:rasia@oats.inaf.it">rasia@oats.inaf.it</a> Dr. Giuliano Taffoni – <a href="mailto:taffoni@oats.inaf.it">taffoni@oats.inaf.it</a> Project link: <a href="http://adlibitum.oats.inaf.it/cosmcomp/">http://adlibitum.oats.inaf.it/cosmcomp/</a> <a href="http://www.exanest.eu">http://www.exanest.eu</a>

	D/13	1	Scholarship financed by the Department of Physics funded by ICTP The Abdus Salam International Centre for Theoretical Physics – Unesco TOPICS OF ICTP INTEREST see: <a href="http://www.ictp.it/research.aspx">http://www.ictp.it/research.aspx</a> Fellowship reserved for candidates from Countries NOT included in the list of “High-income economies” compiled by the World Bank ( <a href="http://data.worldbank.org/about/country-and-lending-groups">http://data.worldbank.org/about/country-and-lending-groups</a> ) Note: number of months abroad for the purpose of scholarship increase: 12
	D/14	1	Scholarship financed by the Department of Physics under a research agreement by Automotive Lighting S.p.A. Project title: “Experimental and/or numerical characterization of the optical and electronic properties of materials for the generation and focusing of light beams in automotive lighting systems”. Note: number of months abroad for the purpose of scholarship increase: 0. Principal investigator: <a href="mailto:vesselli@iom.cnr.it">vesselli@iom.cnr.it</a> Project link: <a href="http://www.al-lighting.com/">http://www.al-lighting.com/</a>
	MD/15	1	Scholarship MIUR/University co-financed by the Department of Physics Project title: “RELATIVISTIC COLLAPSE MODELS AND NOVEL CONSTRAINTS IN TESTING THE LARGE SCALE LIMITS OF QUANTUM MECHANICS” - Progetto UE-H2020-FETOPEN-2016-2017 n. 766900 "TEQ Testing the Large-Scale limit of Quantum .Mechanics" - CUP J96J17000370006 Note: number of months abroad for the purpose of scholarship increase: 3. Principal investigator: dr. Angelo Bassi – mailto: <a href="mailto:bassi@ts.infn.it">bassi@ts.infn.it</a>
<i>Places with scholarships/research grants, reserved for graduates from foreign universities [R/1] with indication of their code, total number and funding body</i>		R(B)/1	0 --
<i>Places without scholarship, reserved for graduates from foreign universities [R/1]</i>		R(F)/1	0
<i>Reserved places without scholarship</i>	<i>Recipients of scholarships granted by foreign countries</i>	R(C)/2	0
	<i>Recipients of scholarships granted under international mobility programmes</i>	R(D)/3	0

	Scholars selected under international agreements or programmes where UniTS is involved as coordinating or partner institution	R/4	0	
PhD students from foreign universities admitted under joint supervision of thesis				Yes

## TERMS AND CONDITIONS

Academic qualification required: see Announcement (art. 2 - Requirements)	
“Lauree vecchio ordinamento” awarded in Italy	All
“Lauree specialistiche” awarded in Italy	All
“Lauree magistrali” awarded in Italy	All
Selection criteria	<b>Qualifications + oral examination/interview</b> Maximum final score: <b>70</b> - minimum final score required for eligibility <b>45</b>
Evaluation criteria	<b>Qualifications</b> (maximum score <b>20</b> – minimum final score required <b>10</b> ): <ul style="list-style-type: none"> <li>• curriculum vitae et studiorum   maximum score <b>12</b></li> <li>• exams taken   maximum score <b>2</b></li> <li>• thesis-related activities   maximum score <b>4</b></li> <li>• statement of purpose / self-presentation   maximum score <b>4</b></li> <li>• letters of reference / recommendation   maximum score <b>4</b></li> </ul> <hr/> <ul style="list-style-type: none"> <li>• publications   maximum score <b>2</b></li> <li>• research project (only ESF)   <b>0</b></li> </ul> <b>Oral examination/interview:</b> maximum score <b>50</b> – minimum final score required <b>35</b>
Note: The Examining Board may decide to adopt evaluation subcriteria The admission results will be published on <a href="http://www2.units.it/dottorati/">http://www2.units.it/dottorati/</a> >> Admission to PhD Programme. The admission process includes the following steps: Assessment of foreign degrees >> Assessment of other qualifications >> Oral examination/interview. The merit list will be published after approval of the exam minutes by the Rector.	

Examination schedule	Oral examination/interview	<b>05 July 2017 at 09:00 a.m. (Italian time)</b> at the University of Trieste – room 116 (“sala riunioni”), 1 <sup>st</sup> floor - Department of Physics (building F), Via Valerio, 2 – TRIESTE The Examining Board may decide to interview candidates on subsequent dates
	Language(s) of the interview	Italian/English
	Language(s) tested in the oral examination/interview	English (level of knowledge required: CEFR B2)
	Videoconference interview	Upon request of the candidates, the interview may be carried out by videoconference via skype. The Videoconference interview form is available on <a href="http://www2.units.it/dott/files/VideoconfInterview.pdf">http://www2.units.it/dott/files/VideoconfInterview.pdf</a>

Any candidates, who had not requested a video conference interview at the time of the application, can submit the request for video conferencing by sending an email to [dottorato.fisica@units.it](mailto:dottorato.fisica@units.it) up to four working days before the date of the interview, stating the grounds for their request.

The Examining Board will meet on **05 July 2017** at the University of Trieste – room 116 (“sala riunioni”), 1<sup>st</sup> floor - Department of Physics (building F), Via Valerio, 2 – TRIESTE

The Board may arrange with the candidate a different time for the interview.

### SUPPLEMENTARY INFORMATION SUBSEQUENT TO THE PUBLICATION OF THE ADMISSION ANNOUNCEMENT

27 May 2017	- <b>a statement of purpose / self-presentation</b> and <b>two letters of reference / recommendation</b> from lecturers / researchers: mandatory (not optional)
27 June 2017	- added scholarship D/14 - total number of places available from 15 to 16 - total number of scholarship available from 13 to 14
22 December 2017	- added scholarship D/15
25 January 2018	- total number of scholarships available: 15 - total number of places available decreased from 2 to 1 as the D/15 scholarship was assigned to a doctoral student without scholarship
24 October 2018	- modified scholarship M/1 to MD/1 - modified scholarship D/15 to MD/15