



**UNIVERSITÀ  
DEGLI STUDI DI TRIESTE**

Rettorato e Direzione Generale  
Sezione Ricerca e Dottorati  
Ripartizione Dottorati

LAST REVISED 23/08/2013

**DOCTORAL PROGRAMME IN  
PHYSICS  
RESERVED PLACES FOR GRADUATED IN FOREIGN UNIVERSITIES**

**Note:** candidates applying for reserved places as outlined hereafter cannot apply for other places described in ATTACHMENT 4 – Physics

Please refer to the Admission Announcement for details.  
(<http://www2.units.it/dott/en/?file=DottBandi.inc&cod=2013>)  
This is the Attachment (4R) for the Course in Physics

**SUMMARY**

**AWARD OF 3 SCHOLARSHIPS**

Duration: 3 years. Estimated start: January 2014.

- [cod D/7] **RESEARCH** on: Theoretical and experimental physics subjects of INFN interest
- [cod D/8] **RESEARCH** on: Experiments with Synchrotron radiation
- [cod D/9] **RESEARCH** on: development of novel free electron laser radiation sources

**DEADLINES**

<b>1. ACADEMIC QUALIFICATIONS:</b> - see art. 2 and art. 3 of the Admission Announcement	DEADLINE FOR COMPLETION OF DEGREE: <b>September 16<sup>th</sup> 2013</b>
<b>2. APPLICATION:</b> - see art 5.1 of the Admission Announcement	<b>September 16<sup>th</sup> 2013 by 11.30 (Italian time)</b>
<b>3. FEE PAYMENT:</b> - see at art 5.1 Admission Announcement	<b>September 19<sup>th</sup> 2013 by 24.00 (Italian time)</b>
<b>4. REQUIRED QUALIFICATIONS:</b> - see the "Required Qualifications" section of this document: - as an attachment to the online admission application (upload) - only for publications that are voluminous or not available in electronic format, as long as they are listed in the form "Integration to application" (digital format preferable):: e-mail (scanned documents, max zip file 10 MB) to <a href="mailto:Scuoladifisica@units.it">Scuoladifisica@units.it</a>	<b>September 16<sup>th</sup> 2013 by 11.30 (Italian time)</b>
<b>5. ADMISSION TO INTERVIEW:</b> - see the "Admission to Interview" section of this document	<b>October 2<sup>nd</sup> 2013</b>
<b>6. INTERVIEW (VIDEOCONFERENCING):</b> - see the "Interview" section of this document	<b>October 9<sup>th</sup> 2013 At 9.00 AM (Italian time) or by appointment</b>

Legge 241/1990 - Responsabile del procedimento: Elena Ferraro

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[Dottorati@amm.units.it](mailto:Dottorati@amm.units.it)

[www.units.it](http://www.units.it) – [ateneo@pec.units.it](mailto:ateneo@pec.units.it)



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<b>7. MERIT LIST:</b> - see at <a href="http://www2.units.it/dott/en/">http://www2.units.it/dott/en/</a> "Admission procedure" >> "Admission announcement and relative attachments (...)" >> ATTACHMENT 4R - Physics >> "Eligible Candidates – Merit List"	
Contacts for numbers 1, 2, 3, 7 <a href="mailto:helpdottorati@amm.units.it">helpdottorati@amm.units.it</a>	
Contacts for numbers 4, 5, 6, 7 <a href="mailto:scuoladifisica@units.it">scuoladifisica@units.it</a>	

**GENERAL DESCRIPTION**

**RESEARCH FIELDS:**

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

LOCATION: Trieste

ORGANIZING DEPARTMENT: Department of Physics

NON-ACCREDITED PARTICIPATING INSTITUTIONS:

- Istituto Nazionale di Astrofisica - Osservatorio Astronomico di Trieste
- Istituto Nazionale di Fisica Nucleare - Sezione di Trieste
- Elettra-Sincrotrone Trieste S.C.p.A. di interesse nazionale

MAXIMUM NUMBER OF MONTHS TO BE SPENT ABROAD: 18

OFFICIAL LANGUAGE OF THE COURSE: English

**ADMISSION INFORMATION**

NUMBER OF PLACES AVAILABLE ..... **3**

CODE	FUNDING BODY/IES	TOPICS
[cod D/7]	Dept. Physics funded by INFN	RESEARCH on: Theoretical and experimental physics subjects of INFN interest
[cod D/8]	Dept. Physics funded by Sincrotrone Trieste	RESEARCH on: Experiments with Synchrotron radiation
[cod D/9]	Dept. Physics funded by Sincrotrone Trieste	RESEARCH on: development of novel free electron laser radiation sources

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

Candidates have to list the scholarships they apply for by specifying the corresponding codes in the "Integration to application" form (<http://www2.units.it/dott/files/Integrationapplication.pdf>)

ACADEMIC QUALIFICATION REQUIRED: see Announcement (art. 2 - Requirements)

DEADLINE FOR COMPLETION OF DEGREE: ..... **16.09.2013**

ADMISSION REQUIREMENTS: ..... qualifications + oral interview in videoconferencing

- MAXIMUM NUMBER OF POINTS AWARDED FOR

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QUALIFICATIONS/PUBLICATIONS: .....	20/20
MINIMUM SCORE REQUIRED FOR QUALIFICATIONS/PUBLICATIONS: .....	10/20
- ORAL INTERVIEW MARK OUT OF: .....	50/50
MINIMUM SCORE REQUIRED FOR INTERVIEW:.....	35/50
- MAX FINAL SCORE (i.e. the marks obtained in the interview plus the points given for qualifications) .....	70/70
MINIMUM FINAL SCORE REQUIRED:.....	45/70

**REQUIRED QUALIFICATIONS**

- certificate of the academic qualification;  
 curriculum vitae et studiorum;  
 if available, a Graduate Record Examination (GRE) Subject Test in physics (or chemistry or mathematics)  
 Up to: .....6/20
- a degree transcript listing the examinations taken by the candidate, with marks and a short description of their content; up to:.....4/20
- a brief summary of the master thesis, if applicable; up to:.....4/20
- two letters of recommendation  
[https://df.units.it/sites/default/files/pagina/allegati/Letter%20of%20recommendation\\_TEMPLATE\\_0.doc](https://df.units.it/sites/default/files/pagina/allegati/Letter%20of%20recommendation_TEMPLATE_0.doc)  
 by professors or experts in the relevant field of research (to be emailed directly by the appraisers to [Scuoladifisica@units.it](mailto:Scuoladifisica@units.it) - re: Letter for surname – name);  
 a statement of purpose  
 Up to: .....3/20
- publications; up to:.....3/20
- "Integration to application" - <http://www2.units.it/dott/files/Integrationapplication.pdf> - (unless this form is submitted, qualifications and publications **CANNOT** be assessed by the Examining Board)

- as an attachment to the online admission application (**upload**)
- only for publications that are voluminous or not available in electronic format, as long as they are listed in the form "Integration to application" (digital format preferable), **Send required documentation via mail in pdf format compressed max 10Mb to:** [Scuoladifisica@units.it](mailto:Scuoladifisica@units.it)

**ADMISSION TO INTERVIEW**

Check your admission on **02.10.2013** at: <http://www2.units.it/dott/en/> "Admission procedure" >> "Admission announcement and relative attachments (...)" >> ATTACHMENT 4R - Physics >> "Eligible Candidates – Merit List"

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## INTERVIEW (VIDEOCONFERENCING)

**INTERVIEW (videoconferencing): 09.10.2013 starting at 9:00 am CET.** The interview may be arranged at any other time if agreed otherwise. Requests must be emailed before 07.10.2013 to [Scuoladifisica@units.it](mailto:Scuoladifisica@units.it). The interview must be made before 6:00 pm CET **09.10.2013**

Notwithstanding the provisions of art. 6.1 bis of the Admission Announcement, candidates shall email before 7 October 2013 the technical details for the remote connection (video conferencing software and personal account) to [Scuoladifisica@units.it](mailto:Scuoladifisica@units.it) **LAST REVISED 23.08.2013!**

Candidates who wish to make an appointment for the video conference (which must take place before 6:00 pm of 9 October 2013) also have to email [Scuoladifisica@units.it](mailto:Scuoladifisica@units.it)

INTERVIEW LANGUAGE: English

CEFR Required level: B2

## CONTACT INFORMATION

- Dipartimento di Fisica Università degli Studi di Trieste, via Valerio, 2 - 34127 Trieste – Italy  
Phone +39.040.558.3371 Fax +39.040.558.3350
- [Scuoladifisica@units.it](mailto:Scuoladifisica@units.it)
- <http://www.fisica.units.it/Ricerca/dottfisica.php>

## GENERAL INFORMATION

CHAIR: Prof. Paolo Camerini - Dipartimento di Fisica - Università degli Studi di Trieste - tel.040/558.3379; fax 040/558.3350 email [camerini@trieste.infn.it](mailto:camerini@trieste.infn.it)

VICE: Prof.ssa Marisa Girardi - Dipartimento di Fisica teorica - Università degli Studi di Trieste - tel. 040 3199 147 fax 040 3199 123 e-mail [girardi@oats.inaf.it](mailto:girardi@oats.inaf.it)

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

### EDUCATIONAL AIMS:

- Graduates will possess competency in basic principles of physics.
- Graduates will possess an advanced and deep knowledge of their own research area of specialization.
- Graduates will be highly skilled in using advanced scientific experimental/observational/computational/theoretical methods and/or tools appropriate to their area of specialization.
- The most important outcome of their PhD will be the ability to perform independent and innovative research, developing a critical thinking, the capability of working in an advanced and international research environment.
- They will be able to carry out an original scientific work at the leading edge of their field, producing a written dissertation.
- Graduates will be able to summarize about the main issues in their field and communicate the results of scientific research at a professional level as well as to other students.

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