

PHYSICS		
Cycle	XXX	
Duration	3 years	
Supervisor	Prof. Cristiano Viappiani – Department of Physics and Earth Sciences E-mail: cristiano.viappiani@unipr.it	
Research Topics:	<ul style="list-style-type: none"> • Condensed Matter and Materials Physics • Theoretical Physics • Biophysics and Applied Physics 	
Training objectives	<p>The PhD in Physics, with a duration of 3 years, is established as a unifying element of the third-level University education in the Physics` area. Besides their main commitment to the research activity, students are supposed to spend a substantial part of their training period in attending advanced courses as well as national and international schools. Students are encouraged to spend part of their time abroad in order to participate in scientific collaborations in their fields of interest and follow advanced courses in support of their research program. During the three-years, teaching commitments are progressively reduced towards a full time engagement in the research activity. The evaluation of the training program is carried out - at the end of each year - through open seminars held by the students. The independent scientific research is expected to lead to publication of results in international, peer reviewed journals. The ultimate goal of the PhD in physics is a highly specialized scientific training that opens professional carriers in academic institutions and research laboratories, either public or private. The PhD in Physics is divided into three areas corresponding to major groups of disciplines of Physical Sciences covered by the research activity of the Department of Physics and Earth Sciences.</p>	
Academic degree required	Laurea pursuant to the previous university system, laurea specialistica or laurea magistrale, or a foreign academic qualification that has been recognized as equivalent	
Positions put out to competition		
With scholarship	6	
Reserved to holders of scholarships funded by foreign States and/or scholarship holders within specific international mobility programs	1	
TOTAL	7	
Scholarship types	No.	Description (funding entity and research topic, if any)
	3	Scholarships of the University of Parma
	1	MIUR Scholarship "Fondo Giovani" on the "Energy savings and distributed microgeneration" topic
	1	Co-funded by Fondazione Cariparma
	1	Funded by INFN (the Italian National Institute for Nuclear Physics)

Positions reserved to holders of scholarships funded by foreign States and/or scholarship holders within specific international mobility programs	No.	Position reserved to holders of scholarships funded by foreign States:	
	1	Holder of a scholarship funded by Universities or Foreign State	
Admission procedures	Assessment of QUALIFICATIONS: up to 60 points a minimum score of 10 points shall be required to be admitted to the Oral Exam ORAL EXAM: up to 60 points Minimum score for ELIGIBILITY: 70/120		
Interview via teleconference for candidates residing abroad	THE ORAL EXAM MAY BE HELD <u>VIA VIDEOCONFERENCE</u> FOR CANDIDATES RESIDING ABROAD. THE INTERVIEW MAY BE HELD ALSO IN ENGLISH. (the relevant request shall be submitted using the form attached to the competitive examination announcement)		
List of QUALIFICATIONS to be submitted and their assessment	Graduation thesis	Abstract of the graduation thesis (if the graduation thesis has not yet been discussed, it shall be signed by the thesis supervisor) (mandatory qualification)	Up to 10 points
	Curriculum Vitae et studiorum	Covering the candidate's university career and postgraduate experience, accompanied with a statutory declaration in lieu of the certification of the exams sat and passed, with the relevant marks, as well as the final graduation mark (mandatory qualification)	Up to 30 points
	Other qualifications	for example: publications, prizes, papers at Conventions, internships, scholarships, etc.	Up to 20 points
Foreign language	Language the fluency of which shall be assessed during the Oral Exam: ENGLISH		
Schedule of the admission exam	ORAL EXAM DATE: 24 September 2014 TIME: starting from 10:00am in accordance with the schedule to be published on the website of the Department of Physics and Earth Sciences http://dottfisica.unipr.it/cgi-bin/campusnet/home.pl PLACE: Department of Physics and Earth Sciences Parco Area delle Scienze, 7/A – 43124 PARMA, ITALY		
Oral Exam topics	The Oral Exam will focus on the description of the research work carried out to prepare the Graduation Thesis for the Laurea Magistrale/Specialistica, as well as of the research project that the candidate proposes to carry out within the research topics of the Research Doctorate Program in Physics at the Department of Physics and Earth Sciences of the University of Parma.		