



## DOCTORAL PROGRAMME

IN

## PHYSICS AND ASTRONOMY

Director Prof. Raffaello D'Alessandro

XXXVIII cycle – academic year 2022/2023

<b>SCIENTIFIC AREA</b>	
<b>ADMINISTRATIVE OFFICE</b>	Department of Physics and Astronomy
<b>PARTNER INSTITUTIONS</b>	Istituto Nazionale di Fisica Nucleare (I.N.F.N.)
<b>POSITIONS AVAILABLE: 12</b> Positions with Scholarship: 10 Positions without Scholarship: 2* <i>* standard ranking only</i>	
<b>RANKING LIST FOR STANDARD POSITIONS SCHOLARSHIPS AVAILABLE: 8</b>	5 - University of Florence 3 - Istituto Nazionale di Fisica Nucleare (I.N.F.N.)
<b>RANKING LISTS FOR POSITIONS WITH SPECIFIC RESEARCH TOPICS SCHOLARSHIPS AVAILABLE: 2</b>	2 - Istituto nazionale di astrofisica – INAF <b>Thematic:</b> “Studies of galaxy evolution, dark matter, stellar populations, star formation, exoplanets, astrobiology, high energy astrophysics, advanced technologies for astrophysics”. <b>Thematic:</b> “Adaptive optics for very large telescopes”.
<b>STUDY/RESEARCH PERIODS ABROAD</b>	1-3 months
<b>DOCUMENTS REQUIRED FOR THE ADMISSION</b> (under penalty of exclusion)	<ul style="list-style-type: none"><li>• Copy of the Identification Document</li><li>• Self-declaration for qualifications obtained in Italy (laurea Triennale, Specialistica o Magistrale o ciclo unico) with a list of all exams taken and their marks, title of the thesis and graduation mark (download the form <a href="#">here</a>, make sure you <b>fill in all the fields</b>)</li><li>• Qualifications obtained abroad (Bachelor’s and Master Degrees or combined cycle Degree) with a list of all exams taken and their marks, title of the thesis and graduation mark.</li></ul> <p><i>The same documentation except for the final mark must be submitted by those who will graduate within the 31/10/2022</i></p>
<b>DOCUMENTS REQUIRED FOR THE EVALUATION</b>	<b>MANDATORY</b> <ul style="list-style-type: none"><li>• Curriculum vitae et studiorum (max 3000 characters, spaces not included)</li></ul>

	<ul style="list-style-type: none"> <li>• Research project</li> </ul> <p><b>OPTIONAL</b></p> <ul style="list-style-type: none"> <li>• List of publications</li> <li>• Thesis abstract</li> <li>• Other qualification documents</li> </ul>																					
<b>REFERENCE LETTERS</b>	A section is provided in the online application to specify the e-mail addresses of two professors/researchers willing to provide information about candidates training path and activities performed within a scientific field related to the Ph.D. course.																					
<b>RESEARCH PROJECT</b>	The Research Project must be at most two A4 pages long. The Project may be written in Italian or English and must describe a possible research activity to be carried out within the three-year PhD course. The project will be evaluated for its coherence with the Doctoral themes of our PhD program and for its general and specific feasibility. It will also be used to ascertain the candidate's aptitude for research, even if it will not necessarily constitute his/her Thesis project.																					
<b>INTERVIEW MODE</b>	<p><b>In-person</b> (In the application form candidates residing abroad may ask to conduct the interview remotely)</p> <p><b>The interview is conducted in English language.</b></p>																					
<b>FURTHER INFORMATION</b>	The interview will concern the research project, the thesis work, and basic physics knowledge used in the thesis.																					
<b>EVALUATION MARKS</b>	<table border="1"> <thead> <tr> <th>parameter</th> <th>minimum score</th> <th>maximum score</th> </tr> </thead> <tbody> <tr> <td>Research project</td> <td>2/120</td> <td>8/120</td> </tr> <tr> <td>Other titles and papers</td> <td>–</td> <td>2/120</td> </tr> <tr> <td>Curriculum vitae et studiorum, and list of taken exams with accompanying grades</td> <td>–</td> <td>38/120</td> </tr> <tr> <td colspan="3"><b>Applicants who obtain a mark of at least 32/120 in the evaluation of the above parameters will be admitted to the interview</b></td> </tr> <tr> <td>Interview: discussion of the research project, thesis, the qualification documents presented and publications</td> <td>48/120</td> <td>72/120</td> </tr> <tr> <td colspan="3"><b>Eligibility is achieved with a minimum score of 80/120</b></td> </tr> </tbody> </table>	parameter	minimum score	maximum score	Research project	2/120	8/120	Other titles and papers	–	2/120	Curriculum vitae et studiorum, and list of taken exams with accompanying grades	–	38/120	<b>Applicants who obtain a mark of at least 32/120 in the evaluation of the above parameters will be admitted to the interview</b>			Interview: discussion of the research project, thesis, the qualification documents presented and publications	48/120	72/120	<b>Eligibility is achieved with a minimum score of 80/120</b>		
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<p>Further information available at the following website page:  <a href="https://www.fisica.unifi.it/vp-26-dottorato-in-fisica-e-astronomia.html">https://www.fisica.unifi.it/vp-26-dottorato-in-fisica-e-astronomia.html</a></p>																						

**EXAMINATION SCHEDULE**

	<b>DATE</b>	<b>TIME</b>	<b>PLACE</b>
<b>INTERVIEW</b>	September 5 <sup>th</sup> 2022	9:30 a.m.	Department of Physics and Astronomy Via Sansone, 1 - Sesto Fiorentino (FI) Room 119

The list of candidates admitted to the interview and the final ranking will be published at the following web page: <https://www.unifi.it/p12202.html>