

## Physics

<b>Cycle</b>	XXXVIII
<b>Director</b>	Prof. Eleonora Luppi - Department of Physics and Earth Sciences – <a href="mailto:eleonora.luppi@unife.it">eleonora.luppi@unife.it</a>
<b>Duration</b>	3 years
<b>Partner Institution</b>	- Italian Institute for Nuclear Physics (Istituto Nazionale di Fisica Nucleare – INFN) - H.Niewodniczański Institute of Nuclear Physics Polish Academy of Sciences (IFJ PAN), Kraków, Poland
<b>Curriculum</b>	No
<b>Research Topics</b>	<a href="http://www.unife.it/studenti/dottorato/corsi/riforma/physics">http://www.unife.it/studenti/dottorato/corsi/riforma/physics</a>
<b>Qualification required for admission</b>	Italian degree known as “Laurea specialistica/magistrale” or a degree awarded prior to approval of Ministerial Decree D.M. n. 509 of 3 November 1999, updated with D.M. n. 270 of 22 October 2004, n. 270; Master’s (second level) degree, or an equivalent foreign academic qualification awarded abroad.

<b>Available Positions (total)</b>	<b>12</b>
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### Assessment Criteria

<b>Evaluation of qualification:</b> maximum score 20 points. Minimum score required to be admitted to the interview 12/20 - <b>Interview:</b> maximum score 60 points (including the foreign language examination). <b>Minimum final score required: 60/80</b>		
During the interview, applicant’s knowledge of the following languages will be tested.		English
<b>List of documents for the evaluation</b>		
<b>Curriculum vitae et studiorum</b>	<p><b>Mandatory documents:</b> Complete academic career information, a list of examinations and grades and final mark, for Bachelor and Masters degrees. Thesis abstract (max length 2 pages), with the following structure: motivation, research methodology, obtained or expected results and bibliography. Only for undergraduate students the abstract must be signed by the supervisor.</p>	Up to 14 points
<b>Scientific publications</b>	<p><b>Mandatory documents:</b> <i>In extenso</i> copy of the publications, including abstracts and/or papers presented in national or international congresses and meetings; <b>OR</b> File containing the full list of the publications with relevant link.</p>	Up to 2 points
<b>Reference letters</b>	Maximum 3 letters, supporting the application, written and signed by teachers, experts, researchers or professionals, qualified on the course topics.	Up to 3 points
<b>Other academic or professional qualifications</b>	Certified working experiences in the field. Others academic qualifications	Up to 1 point
<b>Interview</b>		
Verification of the knowledge on the subject of the Doctoral Research topics and Candidate’s linguistic skills.		
<b>Examination timetable</b>		
Evaluation of qualifications and interview will take place within the 16 <sup>th</sup> of September. Evaluations’ results may be checked at the following link: <a href="http://www.unife.it/studenti/dottorato/concorsi/selection">http://www.unife.it/studenti/dottorato/concorsi/selection</a> . The beginning date for consulting the evaluations’ results and the interview schedule will be available within the present call deadline at the following page <a href="http://www.unife.it/studenti/dottorato/concorsi/commissioni">http://www.unife.it/studenti/dottorato/concorsi/commissioni</a>		

<b>Available Positions and kind of financial support</b>		
<i>N°</i>	<i>Kind of Financial Support</i>	<i>Research subject</i>
2	Università di Ferrara	
2	INFN	
1	INFN – Legnaro	Physics and nuclear technologies
1	Funded by Department of Physics and Earth Sciences - “Dipartimenti di eccellenza 2018-2022”	
1	Co-funded by INFN-FE and Università di Ferrara	Nuclear technologies for soil mapping
1	Co-funded by Dipartimento di Fisica e Scienze della Terra and Università di Ferrara	High performance data analysis and processing for fundamental and applied physics experiments
1	Co-funded by Dipartimento di Fisica e Scienze della Terra and Università di Ferrara	Precision constraints from space borne observations of the cosmic microwave background and of the large scale structure of the Universe.
1	Co-funded by Dipartimento di Fisica e Scienze della Terra and Università di Ferrara	Study of innovative crystal-assisted radiation and particle sources
2	Positions reserved to candidates belonging to specific categories	Reserved positions for candidates holding a foreign government scholarship or a scholarship funded by international mobility programmes
<b>Positions deriving from DD.MM. 351/2022 and 352/2022</b>		
<i>N°</i>	<i>Kind of Financial Support</i>	<i>Research subject</i>
1	D.M. 351/2022 (Digital and environmental transition - M4C1 I. 3.4)	Quantum computing and applications
1	Co-funded by Università di Ferrara – fondi D.M. 352/2022 - M4C2 I. 3.3 and POWERGLASS srl	Development of Luminescent Solar Concentrators on laminated glass