UNIVERSITÀ
DEGLI STUDI DI TRIESTE

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

ATTACHMENT 4 LAST REVISED 09/05/2016

PhD IN PHYSICS (under the agreement with the National Institute for Nuclear Physics) OVERVIEW

IN BRIEF		
Lines of research	1 Nuclear and subnuclear physics 2 Astrophysics 3 Condensed matter physics 4 Theoretical physics 5 Medical physics and biophysics	
Administrative location	University of Trieste	
Organizing Department	Department of Physics	
Partner	National Institute for Nuclear Physics	
Duration	3 years	
Attendance abroad that entitles to a scholarship increase - min. max. of months for each PhD student (over 3 years)	0 - 18	
Official language	English	
Subject Area	02	PHYSICS
Macro Research Fields *(in alphabetical code order)*	02/A 02/B 02/C 02/D	PHYSICS OF FUNDAMENTAL INTERACTIONS PHYSICS OF MATTER ASTRONOMY, ASTROPHYSICS, EARTH AND PLANETARY PHYSICS APPLIED PHYSICS, PHYSICS TEACHING AND HISTORY OF PHYSICS
Scientific Disciplinary Sectors *(in alphabetical code order)*	FIS/01 FIS/02 FIS/03 FIS/04 FIS/05 FIS/07	EXPERIMENTAL PHYSICS THEORETICAL PHYSICS, MATHEMATICAL MODELS AND METHODS PHYSICS OF MATTER NUCLEAR AND SUBNUCLEAR PHYSICS ASTRONOMY AND ASTROPHYSICS APPLIED PHYSICS
Domain European Research Council	PE	PHYSICAL SCIENCES AND ENGINEERING
ERC Panels	PE2 PE3	FUNDAMENTAL CONSTITUENTS OF MATTER: PARTICLE, NUCLEAR, PLASMA, ATOMIC, MOLECULAR, GAS, AND OPTICAL PHYSICS CONDENSED MATTER PHYSICS: STRUCTURE, ELECTRONIC PROPERTIES, FLUIDS, NANOSCIENCES

	PE9	UNIVERSE SCIENCES: ASTRO-PHYSICS/CHEMISTRY/BIOLOGY; SOLAR SYSTEM; STELLAR, GALACTIC AND EXTRAGALACTIC ASTRONOMY, PLANETARY SYSTEMS, COSMOLOGY, SPACE SCIENCE, INSTRUMENTATION

WHO'S WHO	
Chair	Prof. Paolo Camerini – Department of Physics – University of Trieste - phone N. 040.558.3379/3396; fax 040.558.3350; email camerini@trieste.infn.it
Vice	Prof. Marisa Girardi - Department of Physics – University of Trieste – phone N. 040.3199.147; fax 040.3199.123; email girardi@oats.inaf.it
Web site	http://df2.units.it/?q=en/node/2986
Email	dottorato.fisica@units.it
Course description and objectives	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. The research fields of activity of the Graduate Course are: Nuclear and subnuclear physics, Astrophysics, Condensed matter physics, Theoretical physics, Medical physics and biophysics.
Job placement opportunities	Research activities in national and foreign universities, research centers and industry. Teaching in universities and secondary schools. Jobs which require high scientific expertise, both in the public and private sector.
Main cooperating international Universities and Research Institutions	1 Centre Europeen de Recherche Nucleaire (CERN, Geneva, Switzerland) 2 ESO GARCHING (Germany) 3 University of Cologne (Germany) 4 École Polytechnique Fédérale de Lausanne (Switzerland) 5 UC Davis, University of California (USA)