FORMATO EUROPEO PER IL CURRICULUM VITAE

AI FINI DELLA PUBBLICAZIONE

GENERAL INFORMATION

Name: IRENE DI PALMA

WORKING EXPERIENCES

- September 2017 - present: INFN Postdoc Fellowship at the University of Roma "La Sapienza".
- 25 July 2017: National Scientific Qualification as Professor of II level, *sector of contest 02/A1.*

September 2016 – August 2017: Oréal and UNESCO for Women in Science fellowship, University of Rome "La Sapienza" and INFN (National Institute for Nuclear Physics), working on Correlation data analysis between high energy neutrinos from ANTARES and Ultra High Energy Neutrinos from *Auger and Telescope Array. Adviser: Prof. A. Capone*

September 2015 – August 2016: INFN Postdoc Fellowship at the University of Roma "La Sapienza". In collaboration with Dr. Dafne Guetta and Dr. Elena Amato, working on Constrains of hadronic content of Pulsar *Wind Nebula. Adviser: Prof. A. Capone*

August 2014 – August 2015: Post-doc fellowship, International Max Planck Research School on Gravitational Wave Astronomy, Max-Planck-Institut für Gravitationsphysik Albert- Einstein-Institut, Golm, Berlin working on the post-processing of the last scientific searches of Einstein@Home project. *Advisor: Dr. M. Alessandra Papa*

August 2012 - August 2014: Post-doc fellowship, International Max Planck Research School on GravitationalWave Astronomy, Max-Planck-Institut für Gravitationsphysik (Albert- Einstein-Institut) and Leibniz Universität Hanover, Germany. Data analysis for the search of periodic gravitational wave signals from isolated compact objects, in the contest of Einstein@Home project *Advisors: Prof. Bruce Allen, Dr. M. Alessandra Papa*

STUDIES

• February 2009 – August 2012

Doctoral Studies, Magna cum laude, International Max Planck Research School on Gravitational Wave Astronomy, Max-Planck-Institut für Gravitationsphysik, (Albert-Einstein-Institut) and Leibniz Universität Hanover, Germany
Thesis: The first search for coincident Gravitational Waves and High Energy
Neutrinos
Advisors: Prof. Bruce Allen

26 June 2008

Master Degree in Astronomy and Astrophysics (110/110) cum laude at University
'La Sapienza' in Rome
Thesis: Neutrino fluxes detection from galactic sources with the underwater
detector ANTARES
Advisors: Prof. Antonio Capone and Dr. Fabrizio Lucarelli

30 October 2006

Bachelor Degree in Physics and Astrophysics (110/110) cum laude at University 'La Sapienza' in Rome
Thesis: Reduction of thermal noise in the gravitational experiments: study of the last suspension stadium of VIRGO mirrors for cryogenic enviromnents
Advisor: Prof. Fulvio Ricci

FELLOWSHIP

• June 2008- September 2008

Summer Fellowship INFN-NSF/LIGO at Columbia University of New York about Search method for coincident events from LIGO-VIRGO-IceCube-ANTARES detectors
Adviser: Prof. Szabolcs Marka

DUTIES

• 2017 – present

Aspen Junior Fellow

2014 – present

Editorial Board Member for Scientific Reports of Nature Publishing Group, The Macmillan Building 4 Crinan Street London,
N1 9XW.

2016

Co-supervisor for the Master thesis "Correlation between high energy cosmic rays observed by Auger and Telescope Array and detected neutrinos from the telescope ANTARES" of Giovanni Renzi, presented *on December 20, 2016 at the University of Rome "La Sapienza".*

TEACHING ACTIVITIES

2017	Lecturer (2017): teach "Multi-messenger astrophysics: the new era of gravitational waves" for the Astroparticle Physics Course
2016	Teaching Assistant (2016) for the Mechanics class.
2015	Lecturer (2015): teach "Theory of gravitational waves and their sources, detectors (AdvLIGO and AdvVirgo), multimessenger and recent results" for the Astroparticle Physics Course
2011	Teaching Assistant (2011): supervise undergraduate student for the topic 'Modified Newton Dynamics (MOND)' at the Max-Planck-Institute Hannover.
2010	Teaching Assistant (2010): supervise undergraduate student for the topic 'Hubble Space Telescope' at the Max-Planck-Institute Hannover
2009	Teaching Assistant (2009): supervise undergraduate students for two main topics: 1) Black Holes, observations and wormhole; 2) Black Holes' classification at the Max-Planck-Institute Hannover.

TECHNICAL SKILLS

Software	• Root/C++ programming language; • Condor, parallel programming (Atlas cluster) • Matlab programming language; • Fortran programming language; • TOPCAT.
Hardware	• Linux; • Mac; • Windows (ECDL: European Computer Driving Licence).

LANGUAGES

- Italian (native speaker);
- English (good both written and spoken) (TOEFL);
- German (B1).

PRIZES

- 2009 ARAP Prize for the best Master Degree Thesis in Astroparticle Physics
- 2016 Breakthrough Prize for the discovery of Gravitational Waves
- 2016 Oréal and UNESCO Prize for Women in Science
- 2016 Gruber Foundation Cosmology Prize

ATTACHMENTS

List of all peer-reviewed journal articles in pdf
List of 12 selected publications in pdf
List of talks in Conferences in pdf