	Contact Information
First Name	Federico
Last Name	Cipolletta
Address	c.da Fontezucca 3, 62100 Macerata (MC), Italy
Phone	0733263459
Mobile	$+39\ 3387321029$
Email	cipo87@gmail.com
	Personal Information
Date of	June 24, 1987
Birth	
Birth	Macerata, Italy
Citizenship	Italian
\mathbf{Sex}	Male
Marital Status	Single
	Education
2012 - 22/03/2016	<i>Graduate: Ph.D in Physics and Relativistic Astrophysics</i> , Sapienza University of Rome, Italy
	Thesis title: Structure of rotating self-gravitating figures of equilib- rium in Newtonian gravity and general relativity with an empha-
	sis on neutron stars
	<i>Thesis Advisors:</i> Prof. Simonetta Filippi and Prof. Jorge Armando Rueda Hernandez
	Classification: Excellent
2009 - 2012	Master Degree: Mathematics, University of Camerino, Italy
	<i>Thesis title:</i> Avoidance of singularities for charged collapsing solutions in spherical symmetry
	Thesis Advisor: Roberto Giambó
	Final Degree Remark: 110/110 cum laude
2006-2009	Deskalan Derman Methametice Hairmeiter of Comparing Itales
	Bachelor Degree: Mathematics, University of Camerino, Italy
	Thesis title: Rational Tangles and Continued Fractions

Additional Qualifications

	Computer Skills
Operative Systems	Linux, Windows, Mac OS
Computer Languages	Python, C/C++, bash for command line, Fortran 90
Scientific Software	Mathematica, Matlab, Maple, Gnuplot, LaTex
Scientific codes	RNS, JETSPIN
Personal codes	CLASS_ROT: build numerical configurations of equilibrium of differen- tially rotating polytropes in newtonian gravity (based of method by Eriguchi and Mueller)

Languages

Italian Native

English Spoken (fluent), listen comprehension (very good), written (very good)

Employment History

months)

April Short term cooperation agreement with IAC group of CNR in Rome. Col-2016-in laborator of doc.s Sauro Succi, Marco Lauricella and Giuseppe Pontrelli, progress (6 working with JETSPIN public Fortran code, to numerically model electrospinning processes (industrially used to produce polymeric nano-fibre). Modifications of JETSPIN code in order to take into account a fixed magnetic field and a rotating electric field orthogonal to the injection's direction. Statistical analysis of results in order to understand physical features of the process.

Scientific Schools and Talks

Conferences

July 20-24, 2015	"14th Italian-Korean Symposium on Relativistic Astrophysics", Pescara (Italy)
July 12-18, 2015	"Fourteenth Marcel Grossmann Meeting - MG14", Rome (Italy)
September 8-19, 2014	"Third BEGO Rencontres-IRAP PhD Erasmus Mundus School", Nice (France)
May 11-16, 2014	"Supernovae, Gamma-ray bursts and the Induced gravitational collapse", Les Houches (France)
Frebruary	Nice Winter school, Nice (France)
23-March 2	
2014	

September Nice BEGO school, Nice (France) 2013

Spring 2013 ICRANet meeting on Relativistic Astrophysics on the Occasion of the 50th anniversary of the Kerr solution of the Einstein's equations, Pescara (Italy)

May 2013 Nice BEGO school, Nice (France)

Talks

- July 20-24, Models for equilibrium configurations of rotating self-gravitating Poly-2015 tropic Stars, during "14th Italian-Korean Symposium on Relativistic Astrophysics", Pescara (Italy)
- July 20-24, Structure And Stability For Realistic Rapidly Rotating NS: Full GR Treat-2015 ment, during "14th Italian-Korean Symposium on Relativistic Astrophysics", Pescara (Italy)
- July 12-18, Structure And Stability For Realistic Rapidly Rotating NS: Full GR Treat-2015 ment, during "Fourteenth Marcel Grossmann Meeting - MG14", Rome (Italy)
- September *Rapidly Rotating Neutron Stars in full GR*, during "Third BEGO 8-19, 2014 Rencontres-IRAP PhD Erasmus Mundus School", Nice (France)

Scientific publications and work in progress

Published

- 2015 Angular Momentum Role in the Hypercritical Accretion of Binary-Driven Hypernovae, L. M. Becerra, F. Cipolletta, C. L. Fryer, J. A. Rueda, R. Ruffini, ApJ, 812, 100, Published 13 October 2015
- 2015 Fast rotating neutron stars with realistic nuclear matter equation of state,
 F. Cipolletta, C. Cherubini, S. Filippi, J. A. Rueda, R. Ruffini, Phys. Rev. D 92, 023007, Published 13 July 2015
- 2012 COLLAPSE OF SPHERICAL CHARGED ANISOTROPIC FLUID SPACETIMES, Federico Cipolletta and Roberto Giambó 2012, Class. Quantum Grav. 29 245008. doi:10.1088/0264-9381/29/24/245008, Received 3 August 2012, in final form 15 October 2012, Published 19 November 2012.

In Preparation

On the mostly bound circular orbit around rapidly rotating neutron stars, Authors: F. Cipolletta, J. A. Rueda, R. Ruffini

On the accuracy of the Hartle-Thorne approximation in realistic rapidly rotating neutron stars, Authors: L. M. Becerra, R. C. Rodrigues, F. Cipolletta, J. A. Rueda, R. Ruffini

On the equilibrium configuration for Newtonian rotating polytropes with a multi-parametric differential rotation law, Authors: F. Cipolletta, S. Filippi, C. Cherubini

Magnetic Field and Rotating Orthogonal Electric Field in electrospinning processes, Authors: F. Cipolletta, M. Lauricella, G. Pontrelli, S. Succi.

Awards

Oct IRAP PhD Scholarship, in Sapienza University of Rome

2012-Oct

2015

2009-2011 Excellence Scholarship, in University of Camerino, during Master Degree

2006-2009 Excellence Scholarship, in University of Camerino, during Bachelor Degree