

## **Valeria Ferrari Curriculum Vitae**

**Born:** 21 March 1952, Monterotondo (Roma) ITALY

**Present Position:** 2000 to date Prof. of Theoretical Physics,  
Dept. of Physics, "Sapienza", University of Rome

### **Previous Academic Positions at the Physics Department, Sapienza, University of Rome**

[1993-2000] Associate Professor, [1981-1993] Research Associate,  
[1981] Assistant Professor, [1978-1981] Research assistant  
- [1977-1978] Research assistant, Istituto Plasma Spazio,  
Frascati, fellowship of the National Council of Research (CNR).

### **RESEARCH GRANTS**

Local coord. for the Rome node:

MIUR COFIN:

2008, 2008KRBZTR\_00, 53.340 Euro

2003, 2003023274\_002, 59.100 Euro

EU RTN, Contract N. HPRN-CT-2000-00137 (2000-2003), 126.643 Euro

National coord. of:

IIS OG51, funded yearly by INFN (1998 to date), 136.000 Euro  
from 2008 to date

WP4300, ASI-I016070, funded by the Italian Space Agency (2007-10),  
168.118 Euro

### **PROFESSIONAL ACTIVITIES**

Since September 2008, I have been chairing the the Virgo-EGO Scientific Forum (VESF), financed by EGO (the European Gravitational Observatory), involving scientists in the field of astrophysics, astroparticle, general relativity, nuclear physics etc. VESF includes fifty groups belonging to European universities, laboratories and astronomical observatories, and it is the structure through which non-Virgo scientists interact with the VIRGO-LIGO collaboration regarding the R&D activity for future improvements, data analysis methods and strategies, the interpretation of the results and their relationship with other astrophysical data, theoretical and experimental strategies concerning gravitational wave detection.

- Director of the VESF International School "Gravitational waves, neutrinos and multiwavelength observations: the new frontier of astronomy", April 15-18, 2013, Astronomical Observatory of Rome, Monteporzio Catone (Rome, Italy)

- Member of the evaluation panel of the Max Planck Society, for the extension of the Partnership Group for Relativistic Astrophysics, of the Center for Mathematics, Computation and Cognition of UFABC, Brasil.

- Member of the Appointment Committee of the Max Planck Society's Scientific Council to appoint the Director Max Planck Institute for Gravitational Physics, Potsdam. April 2013.

- Member of the evaluation panel of the doctorate school of the Max Planck Institute for Gravitational Physics (Albert Einstein Institute) Hannover IMPRS, on Gravitational Wave Astronomy, April 2010.

**2005-2007** Director of the Doctoral School in Physics, Sapienza, Univ. of Rome.

Referee for: the FP7 European Commission, ERCEA and REA, the NATO Scientific Affairs Division, CIVR, Committee for evaluation of Research in Italy, research projects financed by MIUR, ANVUR.

Member of the Board of:

International Society of General Relativity and Gravitation  
(2010–2019, 1995–2004)

Gravitational Physics Section of the EPS (2004–2010)

Italian Society of Gravitational Physics (1996–2000, 2006–2010)

Member of the Editorial Board of:

Classical and Quantum Gravity, 2007 to date

International Journal of Modern Physics D, 1995–2007.

## Teaching

At the Department of Physics of Sapienza, University of Rome :

- [2011 to date] "Gravitational Waves, Stars and Black Holes" for physicists and astronomers (master degree)

- [2002 to date] "General Relativity" for physicists and astronomers (master degree)

- [1993-2002] "Physics" for biologists

- [1993-1997 and 2000-2001] PhD course: "General Relativity"

At the Department of Physics, Enrico Fermi Institute, The University of Chicago:

- [1993] Ph.D. course: "General Relativity"

- [1998] Ph.D. course: "Gravitational waves and the theory of stellar perturbations"

Throughout my career I have been supervising tens of Laurea and PhD thesis of both Italian and foreign students, as well as 8 postdocs.

## Invited Talks of the last five years

2013: *Fachverband Gravitation und Relativitätstheorie (GR) gemeinsam mit der Astronomischen Gesellschaft*, Jena February 25 – March, talk "The gravitational signal of a newly born protoneutron star"

2012: *XX SIGRAV Conference on General Relativity and Gravitation*, Napoli, Osservatorio Astronomico di Capodimonte, Oct 22-26, talk "Gravitational waves from astrophysical sources: what do we learn from LIGO and Virgo, what do we expect to learn from future detectors"

2011: *Numerical Relativity and High Energy Physics*, Madeira Aug 30-Sept 3, 2011 talk "Oscillations of stars and black holes"

*COMPSTAR 2011 : School and Workshop "Gravitational Waves and Electromagnetic Radiation from Compact Stars"*, Catania, 3-12 May 2011, talk "Gravitational Wave Emission from Compact Stars, Part I", "Gravitational Wave Emission from Compact Stars, Part II"

2010: *GWDW-14, 14th Gravitational Wave data analysis workshop*, Rome 25 January 2010 talk "Probing the physics of neutron stars with gravitational waves"

– *5th VESF School On Gravitational Waves*, Sesto Val Pusteria, (BZ) 26-30 July talk "The quadrupole Formalism", talk "Source I: Binaries"

– *International School on AstroParticle Physics (ISAPP): Early Universe and Gravitational Waves*, EGO (European Gravitational Observatory) 26 September-5 October talk "Gravitational Waves in General Relativity"

– *Chandrasekhar Centennial Symposium*, The University of Chicago, October 16-17 talk "Gravitational Waves from Perturbed Stars"

2009 – *Conferenza di Facoltà*, University of Rome La Sapienza, 25 March

talk "Onde gravitazionali: i fremiti dello spaziotempo"

– *4th International Workshop on Astronomy and Relativistic Astrophysics, IWARA2009*, Maresias, San Paulo Brasil, 4-8 October

talk "Black hole-Neutron star coalescence"

