

Filippi Simonetta

Position: Associate Professor (Fis/02) in Theoretical Physics.

Integrated Center for Research

Biomedical Engineering faculty,

Period covered: 1st November 2003-today



I Scientific Work

- Physics of self-gravitating systems
- Nonlinear dynamics and complex systems
- Relativistic Astrophysics and Cosmology

II Conferences and educational activities

Conferences and Other External Scientific Work

- 12th Marcel Grossman Meeting, Paris 2009.

Other Teaching Duties

- 1) Engineering Faculty (University Campus Biomedico)
 - Reader: Dynamics of Complex Systems
 - Reader: Mechanics and Thermodynamics
- 2) Medicine Faculty(University Campus Biomedico):
 - Coordinator of the courses of Physics for Medicine,Nursing and Dietology.
- 3) Reader of IRAP PhD
- 4) Reader and examiner at University La Sapienza of Rome for the course of Theoretical Physics II.

Work With Postdocs

Prof. Filippi is involved in research activities with Dr Andrea Geralico on problems of General Relativity and effective curved geometries in non-relativistic fluids,

III Service activities

Within ICRANet

Organization of conference activities in the ICRA center of Pescara as well as in the organization of other ICRA meetings.

Other

Prof. Filippi has a longstanding collaboration with other ICRANET scientists. In particular in collaboration with Prof. Remo Ruffini and Prof. Alonso Sepulveda, she he has written plenty articles in various areas of self-gravitating systems and Galactic Structures. She also collaborates with Dr Donato Bini and Dr Christian Cherubini in the fields of Complex Systems in Nature, effective geometries in non relativistic fluids, Astrophysics and General Relativity.

2009 List of Publications

- 1) D. BINI, C CHERUBINI. and S. FILIPPI. "On vortices heating biological excitable media". *Chaos, Solit. and Fract.*, 42; 2057 (2009)
- 2) C. CHERUBINI and S. FILIPPI "Lagrangian field theory of reaction-diffusion". *Phys Rev E*, 80; 046117 (2009).