

Curriculum Vitae & Publications: Francesco Sylos Labini

Personal Information

- *Name and Surname:* Francesco SYLOS LABINI
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Fields of activity

Galaxy distributions and cosmology, Self-gravitating systems and systems with long-range interactions
Stochastic processes, Complex systems

Advanced Education

- 1985-1991 **Master degree (Laurea) in Physics**, 28/5/1992, with a Thesis entitled “*Photon noise from a low temperature black body*” at the Physics Department, University of Rome “Sapienza”, 110/110 cum laude.
- 1992-1995 **Ph.D in Physics** 15/10/1996, with a Thesis entitled “*Fractal structure of the visible universe*” , at the Physics Department, University of Bologna (Italy)
- 10/02/2003 **Qualified “Professeur des universités en France”** Section 29 (Constituants élémentaires).
- 2010 **Qualified “Professeur des universités en France”** Section 29 (Constituants élémentaires).
- 2010 **Qualified “Professeur des universités en France”** Section 34 (Astronomie, astrophysique)

Academic positions

- 1996 **Post-Doc**, Physics Department, University of Rome “Sapienza” with a fellowship of the Italian Institute for solid-state physics (INFM).
- 1997 **Post-Doc**, Physics Department, University of Rome “Sapienza” with a fellowship of the Italian Space Agency (ASI)
- 1998-2001 **Assistant Professor** Theoretical Physics Department, University of Geneva (Switzerland)
- 2001-2002 **Post-Doc** Laboratoire de Physique Theorique, Université Paris XI (Orsay, France) with a fellowship of the “Fondation Nationale Science Suisse”
- 2003-2004 **Post-Doc** Laboratoire de Physique Theorique, Université Paris XI (Orsay, France) with a Marie Curie fellowship of the European Commission
- 2005-2009 **Advanced Researcher** Enrico Fermi Center, Rome (Italy)
- 2007-2009 **Visiting Professor** Physics Department, Catholic University of Brescia

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2010 **Temporary Researcher** Institute for complex system (ISC), CNR (Rome, Italy)

2010 **Permanent Researcher** Enrico Fermi Center, Rome (Italy)

Referee for International Journals

Astronomy & Astrophysics, Astrophysical Journal, Astrophysics and Space Science, Classical and Quantum Gravity, Europhysics Letters, Foundations of Science, Journal of General Relativity and Gravitation, Journal of Modern Physics D, Monthly Notices Royal Astronomical Society, Physica A, Physical Review D, Physical Review Letters

Grants

Recent Grants: (2005-2007) Project “*Dynamics and Thermodynamics of systems with long range interactions*”. Financed by the Italian Ministry of Education (110,000 Euro). (2010) Grant of the Lorentz Center (Leiden, The Netherlands) for the organization of the workshop “New directions in modern cosmology” (12,650.- Euro)

Conferences Organization

Recent conferences Member of the National Advisory Committee of STATPHYS 23, the 23rd International Conference on Statistical Physics of the International Union for Pure and Applied Physics (IUPAP) (Genova, Italy, 9-13/07/2007), Local Organizer of the satellite conference of STATPHYS 23 “Dynamics and Thermodynamics of systems with long range interactions: theory and experiments” (Assisi, Italy; 4-8/07/2007), Member of the international Committee of the International Conference “Problems of Practical Cosmology”, (23-29/06/2008, St.-Petersburg, Russia), Organizer of the Workshop “New directions in modern cosmology” Lorentz Center, Leiden The Netherlands (27 September 2010 - 01 October 2010)

Invited talks at International conferences

I have been invited to about 60 international conferences and workshops.

Publications ¹

I have written one Monograph A. Gabrielli, **F. Sylos Labini**, M. Joyce and L. Pietronero “*Statistical physics for cosmic structures*” Springer-Verlag 424 pages (2005) (ISBN: 978-3-540-40745-4). I have

¹My publications may be found on ADS http://cdsads.u-strasbg.fr/abstract_service.html making a search with the string `sylos labini`.

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edited a volume A. Campa, A. Giansanti, G. Morigi and **F. Sylos Labini** “*Dynamics and Thermodynamics of systems with long range interactions: Theory and Experiments*”, American Institute of Physics Conference proceedings **970** (2008)

I have written 76 papers published in international referred journals, among which two reviews, and 40 proceedings on international conferences. I have authored several papers in vulgarization journals. I have co-authored a book in Italian **F. Sylos Labini** & S. Zapperi “*Researchers do not grow on trees*”