

Econophysics

Within the study of complex systems, the interest of some physicists has recently been addressed towards the definition and use of models for quantitative finance, giving rise to a new discipline named Econophysics. In this framework the financial markets, being the result of an interaction between many agents, can be considered as the prototype of a complex system, whose behaviour is therefore analyzed by using methodologies inherited from statistical mechanics and theoretical physics. With the Chair Econophysics we intend to present a multidisciplinary approach to the analysis of complexity in economic and financial systems, endeavouring to create a constructive interaction and synergy between two communities of excellence - the first undertaking academic research in quantitative sciences, the second operating in the framework of economics and financial institutions - with the long term goal of building a common language and methodology.

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ECONOPHYSICS

April - June 2009



LECTURES

Stylized facts in financial markets

28 April 2009
h. 15 - Aula Meeting

Correlation and hierarchies in financial markets

29 April 2009
h. 15 - Aula Meeting

Multivariate analysis and modeling of complex systems

30 April 2009
h. 10 - Aula Meeting

Data production, data mining and data modeling in finance and economics

18 May 2009
h. 15 - Auditorium

Agent based models: formulation, description and numerical simulations

19 May 2009
h. 15 - Aula Meeting

Microstructure of a double auction market

21 May 2009
h. 15 - Aula Meeting

Causes and sources of heterogeneity in markets and social systems

22 May 2009
h. 10 - Aula Meeting

Investment profiles of classes of investors: empirical evidence

15 June 2009
h. 15 - Aula Meeting

Firm growth dynamics

16 June 2009
h. 11 - Aula Meeting

Networks in economic and financial systems

18 June 2009
h. 11 - Aula Meeting

Chair in **Econophysics**

Prof. Rosario N. Mantegna

