

International Workshop on

# THE ECONOMY AS A COMPLEX SYSTEM IV

CAN ECONOMICS BE A PHYSICAL SCIENCE

November 13-14, 2017

The Institute of Mathematical Sciences (IMSc)

Chennai, India



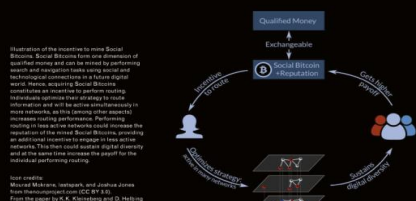
The workshop aims to initiate discussion and debate between scientists from different disciplines who are united in their common aim of understanding the collective behavior of *homo economicus*.

The 4th in a series of workshops titled *The Economy as a Complex System* that have taken place in the Institute of Mathematical Sciences, Chennai from 2004, the meeting will be a forum where physicists, economists and mathematicians will come together to discuss diverse scientific approaches to understand economic phenomena. One of the focal themes of the meeting will be the prospects of using the tools of statistical physics in economics, an enterprise that was dubbed “econophysics” just over two decades ago. From the 1990s onwards there has been a virtual avalanche of publications in econophysics – focusing on properties of financial markets, wealth and income distribution, strategic decision making, etc. viewing (and modelling) socio-economic phenomena through the lens of physical science.



Discussion and Debate:  
Can Economics be a Physical Science?

Sitabhra Sinha, Anindya S. Chakrabarti and Manishpakh Mitra (Eds.)



edpsciences Springer

As discussed in the recent special issue “Discussion and Debate: Can Economics be a Physical Science?” of *European Physical Journal- Special Topics*, a distinct character of this literature has been the emphasis on uncovering “universal” phenomena in economic and social context, through applications of methods borrowed from statistical physics. This workshop will focus on this theme and discuss the problems & potentials of viewing (and modelling) socio-economic phenomena through the lens of physical science.

## Invited Speakers

Frederic Abergel (Ecole Centrale, Paris)  
Nils Bertschinger (FIAS, Frankfurt)  
Bikas K Chakrabarti (SINP, Kolkata)  
Anirban Chakraborti (JNU, New Delhi)  
Damien Challet (Ecole Centrale, Paris)  
Siew Ann Cheong (NTU, Singapore)  
Sanjay Jain (University of Delhi, Delhi)  
Taisei Kaizoji (Intl Christian Univ, Tokyo)  
Sugata Marjit (CSSS, Kolkata)  
Tiziana Di Matteo (Kings College, London)  
Kimmo Kaski (Aalto University, Finland)  
Sheri Markose (University of Essex, Colchester)  
M S Santhanam (IISER, Pune)  
V Sasidevan (CUSAT, Cochin)  
Rituparna Sen (ISI, Chennai)  
Wataru Souma (Nihon University, Tokyo)  
Zbigniew Struzik (University of Tokyo, Tokyo)

## Participation

Please send e-mail to [ecs17@imsc.res.in](mailto:ecs17@imsc.res.in) to apply to take part in the workshop enclosing CV and Statement of Purpose. For details see <http://www.imsc.res.in/~sitabhra/meetings/ecs17/index.html>

## Organizers

Sitabhra Sinha (IMSc, Chennai)  
Anindya Chakrabarti (IIM, Ahmedabad)  
Sourish Das (CMI, Chennai)



## Venue

Ramanujan Auditorium  
Institute of Mathematical Sciences  
CIT Campus, Taramani, Chennai 600113, India