Statistical techniques for correlation analysis: Quantum Many-body Systems and more

July 08th – August 04th, 2018

Centro International de Ciencias A.C., Cuernavaca,México

Monday July 09th, 2018
17:00 -18:00 Arlex Oscar Marín García
Influences of reference scheme in brain signal analysis

Tuesday July 10th, 2018
11:00 -12:00 Raúl Hernández Montoya
Wealth distribution on the game of life
17:00 -18:00 Anirban Chakraborti
Global income inequality and savings: A data science perspective

Wednesday July 11th, 2018
11:00 -12:00 Hirdesh Kumar Pharasi
Identifying long-term precursors of financial market crashes
17:00 -18:00 David Villaseñor
“Correlation Hole” in atom-field system

Thursday July 12th, 2018
12:00 -13:00 Manuel Mijaíl Martínez Ramos
Principal Component Analysis on the European Stock Markets
17:00 -18:00 Francois Leyvraz
Models involving exchange: kinetic models

Friday July 13th, 2018
12:00 -13:00 Roberto Mota
Introduction to Order Book analysis
17:00 -18:00 Susana Ochoa
Correlation matrices and power map for financial time series

Monday, July 16th, 2018
12:00 -13:00 Soham Biswas
Models of Opinion Dynamics: Coarsening and the exit probability
17:00 -18:00 Ivan Kukuljan
Quantum field theory and ultra cold atoms

Tuesday, July 17th, 2018
12:00 -13:00 Victor Yakovenko
Economic Inequality from a Statistical Physics Point of View
17:00 -18:00 Rakesh Chatterjee
Driven dynamics in active frustrated materials

Wednesday, July 18th, 2018
12:00 -13:00 Tankut Can
Non-dissipative odd viscosity in quantum and classical systems
17:00 -18:00 Francisco Gonzalez Montoya
Classical chaotic scattering and invariant manifolds

Monday, July 23th, 2018
12:00 -13:00 Alfredo González
Identifying *meaningful blocks* of notes in pitch sequences

Tuesday, July 24th, 2018
12:00 -13:00 Thomas Gorin
Quantization of stochastic processes
17:00 -18:00 Barbara Dietz
Chaos and Regularity in the Doubly Magic Nucleus {208}^Pb

Wednesday, July 25th, 2018
12:00 -13:00 Hernán Larralde
Dating a random walk
17:30 -18:30 Attilio Stella (Coloquio-ICF)
Growth dynamics and complexity of national economies in the global trade network

Thursday July 26th, 2018
17:00 -18:00 Diego Espitia
Statistical analysis of texts

FridayJuly 27th, 2018
12:00 -13:00 Vishwas Kukreti
Identifying the global terror hubs and vulnerable motifs using complex network dynamics

Monday, July 30th, 2018
12:00 -13:00 Anirban Chakraborti
Critical dynamics in the light of random matrix theory
17:00 -18:00 Attilio Stella **** **(Canceled)** ****
Scaling and the definition of time for financial time series

Thursday, August 2nd, 2018
12:00 -13:00 Attilio Stella
Scaling and the definition of time for financial markets
17:00 -18:00 Thomas H. Seligman
Correlation networks from random walk time series: An alternative null hypothesis for networks?