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Years of the Motter Group at Northwestern University

September 1, 2016 • 9:00 a.m.-12:45 p.m. (US CST) • Virtual Conference Via Blue Jeans Network • TECH F160

9:00 a.m.



Welcoming Remarks

Adilson E. Motter

Charles E. and Emma H. Morrison Professor, Department of Physics and Astronomy, Northwestern University, Evanston, IL, USA

9:15 a.m.



Symmetric States Requiring System Asymmetry

Takashi Nishikawa

Research Associate Professor, Department of Physics and Astronomy, Northwestern University, Evanston, IL, USA

9:30 a.m.



Generalized Entropies and the Similarity of Texts

Eduardo G. Altmann

Group Leader, Max Planck Institute for the Physics of Complex Systems, Dresden, Germany; Associate Professor, School of Mathematics and Statistics, University of Sydney, Sydney, Australia

9:45 a.m.



Wang-Landau Approach to Phase Transitions

Dong-Hee Kim

Assistant Professor, Department of Physics and Photon Science, Gwangju Institute of Science and Technology, Gwangju, South Korea

10:00 a.m. BREAK

10:15 a.m.



Complex Dynamics of Inertial Particles: Trapping and Chaos

Jean-Régis Angilella

Professor, University of Caen, ESIX-Normandie, Caen, France

10:30 a.m.



Observing the States of Nonlinear Networks

Aleksandar Haber

Assistant Professor, Department of Engineering Science and Physics, City University of New York, College of Staten Island, Staten Island, NY, USA

10:45 a.m.



Shear Banding in Bulk Metallic Glasses

Nicholas Boffi

Graduate Student, Department of Applied Mathematics, Harvard University, Cambridge, MA, USA

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Bringing Network Dynamics to Immunology: Open Questions and Meandering Thoughts

Daniel K. Wells

Biological Data Scientist, Parker Institute for Cancer Immunotherapy, San Francisco, CA, USA

11:15 a.m. BREAK

11:30 a.m.



The Advantages of Nonlinearity in Network Control

Sean Cornelius

Postdoctoral Research Associate, Center for Complex Network Research, Northeastern University, Boston, MA, USA

11:45 a.m.



Multiplicity of Self-Similar Solutions in Thin Film Marangoni Flows

Zachary Nicolaou

PhD Candidate, California Institute of Technology, Pasadena, CA, USA

12:00 p.m.



Synchronize Fireflies with Dragonflies: Asymmetry-Induced Symmetry on Multilayer Networks

Yuanzhao Zhang

Graduate Student, Department of Physics and Astronomy, Northwestern University, Evanston, IL, USA

12:15 p.m.



Predicting the Thermodynamics of Metabolic Reactions with Quantum Chemistry

Adrian Jinich

PhD Candidate, Systems Biology Department, Harvard University, Cambridge, MA, USA

12:30 p.m. CLOSING REMARKS