Thursday, Janurary 7					
1:00 PM	Opening remarks				
1:10 PM	lnv.	Adilson Motter, Northwestern University	Optimization of Network Dynamics: Attributes and Artifacts		
1:45 PM	Contr.	Dane Taylor , University of North Carolina	Analyzing data with dynamics: Phase transitions in random walks, community detection and network centrality		
2:00 PM	Contr.	William Ditto, NC State University	Evidence for strange non-chaotic stars		
2:15 PM	Contr.	James Yorke, University of Maryland	Quantitative Quasiperiodicity		
2:30 PM	lnv.	Rudy Horne, Morehouse University	Parity-Time (PT) Symmetric systems: An analysis of dimer and trimer models		
3:05 PM	Break				
3:35 PM	lnv.	Lucas Goehring, Max Planck Institute for Dynamics and Self- Organization	Watching paint dry: The dynamics of charged colloidal particles		
4:10 PM	Contr.	Amir Bozorg Magham, University of Maryland	Causality Analysis: Identifying the Leading Element in a Coupled Dynamical System		
4:25 PM	Contr.	Christopher Marcotte, Georgia Tech	A dynamical mechanism for sustained atrial fibrillation: insights from unstable solutions in a simple model of cardiac dynamic		
4:40 PM	lnv.	Mary Silber, Northwestern University and University of Chicago	Pattern Formation in the Drylands: Self Organization in Semi-Arid Ecosystems		

Friday, January 8

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8:00 AM	Continental breakfast (outside presentation room)		
9:00 AM	lnv.	Herbie Levine, Rice University	Phenotypic transitions en route to metastatic cancer
9:35 AM	Contr.	Dapeng Bi, Rockefeller University	Rigidity and glassiness in dense biological tissues
9:50 AM	Contr.	Erin Rericha, Vanderbilt University	How do cells in a tumor mix?
10:05 AM	Inv.	Sui Huang , Institute for Systems Biology (Seattle)	Cell fate commitment as high-dimensional critical state transition revealed by single-cell resolution gene expression analysis in cell populations
10:40 AM	Break		
11:10 AM	lnv.	Nicholas Buchler, Duke University	Marching to the cell cycle drum beat: Entrainment of a genetic oscillator in yeast
11:45 AM	Contr.	Yen Ting Lin, The University of Manchester	Effects of bursting noise in gene regulation networks
12:00 PM	Contr.	James Hanna, Virginia Tech	A conserved quantity in thin body dynamic
12:15 PM	lnv.	Xiaoming Mao, University of Michigan	Mechanical instabilities at finite temperature
12:50 PM	Lunch (on your own)		
2:20 PM	lnv.	Katie Newhall, University of North Carolina	The Causes of Metastability and Their Effects on Transition Times
2:55 PM	Contr.	Cédric Barroo, Université Libre de Bruxelles	Experimental study of nonlinear dynamics on a single nanoparticle
3:10 PM	Contr.	Thomas Witelski, Duke University	Experimental study of regular and chaotic transients in a non-smooth system
3:25 PM	lnv.	Shane Ross, Virginia Tech	Escape from potential wells in multi-dimensional systems: experiments and partial control
4:00 PM - 6:00 PM	Poster Session A (heavy hors d'oeuvres and drinks provided)		

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8:00 AM	Continental breakfast (outside presentation room)			
9:00 AM	lnv.	Lou Pecora, U.S. Naval Research	Finding and Forming Synchronized Clusters in Complex	
		Laboratory	Networks of Oscillators Using Symmetries	
9:35 AM	Contr.	Richard Lueptow, Northwestern	Cutting and Shuffling: A Dynamical Systems Paradigm	
		University	for Mixing	
9:50 AM	Contr.	Sarah Rajtmajer, Penn State	A coordination-game model for information cascades in	
		University	social networks	
10:05 AM	lnv.	Jim Crutchfield, UC Davis	Demon Dynamics: Deterministic Chaos, the Szilard	
			Map, and the Intelligence of Thermodynamic Systems	
10:40 AM			Break	
11:10 AM	lnv.	Dmitri Chklovskii, Simons Center	Derivation of neural circuits from the similarity matching	
		for Data Analysis	principle	
11:45 AM	Contr.	Eve Armstrong, UC San Diego	From the complex nonlinear behavior of a single	
			neuron to the robust pattern of a network	
12:00 PM	Contr.	Alex Arenas, Universitat Rovira i	Spontaneous synchronization driven by energy	
		Virgili	transport in multiplex networks	
12:15 PM	lnv.	Eleni Katifori, University of	Emerging hierarchies in biological distribution networks	
		Pennsylvania		
12:50 PM		Lunch (on your own)		
2:20 PM	lnv.	Daphne Klotsa, UNC Chapel Hill	Spheres form strings and a swimmer from a spring	
2:55 PM	Contr.	Katherine Copenhagen, UC Merced	Self-organized sorting limits behavioral variability in	
			swarms	
3:10 PM	Contr.	Kevin Mitchell, UC Merced	Topological dynamics in three-dimensional fluid mixing	
3:25 PM	lnv.	Aparna Baskaran, Brandeis		
		University		
4:00 PM -				
6:00 PM	Poster Session B (heavy hors d'oeuvres and drinks provided)			

Saturday, January 9

Sunday, January 10

8:00 AM		Continental breakfast (outside presentation room)		
9:00 AM	lnv.	Mark Shattuck, City College of New York	Statistics of frictional families of particles: experiment and simulation	
9:35 AM	Contr.	Eldad Afik, Weizmann Institute of Science	A Lagrangian approach to elastic turbulence: Pair dispersion in a dissipative chaotic flow reveals the role of the memory of initial velocity	
9:50 AM	Contr.	Jonathan Kollmer, Friedrich- Alexander-Universität Erlangen- Nürnberg	Vertically migrating shear zones in horizontally driven granular matter	
10:05 AM	Break			
10:35 AM	lnv.	Rafi Blumenfeld, National University of Defense Technology, Changsha, and Imperial College London	Granular statistical mechanics – Status report and future directions	
11:10 AM	Discussion and video highlights			
11:45 AM	Closing remarks			