



# Universality: Turbulence Across Vast Scales

## Monday, December 2, 2019

**Invited Speaker: William Irvine: Vorticity by design: the evolution of helicity and turbulent blobs - 2nd flr Auditorium (9:10 AM - 9:50 AM)**

time	[id]	title	presenter
9:10 AM		Breakfast	

**Invited Speaker: Nigel Goldenfeld: Fluctuations, dissipation and transitional phenomena in turbulent pipe flow - 2nd flr Auditorium (11:20 AM - 12:00 PM)**

**Invited Speaker: Michael Graham: Turbulence in complex fluids - 2nd flr Auditorium (2:50 PM - 3:30 PM)**

**Invited Speaker: David Sondak: Machine Learning in Chaotic Systems and Turbulence - 2nd flr Auditorium (4:20 PM - 5:00 PM)**

## Tuesday, December 3, 2019

**Invited Speaker: Cary Forest: High beta flux rope turbulence in the Big Red Ball - 2nd flr Auditorium (9:00 AM - 9:40 AM)**

**Invited Speaker: Hantao Ji: Frontiers of Magnetic Reconnection Research: Turbulent Reconnection and Reconnecting Turbulence - 2nd flr Auditorium (11:10 AM - 11:50 AM)**

**Invited Speaker: Greg Eyink: Turbulence and Reconnection in Magnetized Plasmas - 2nd flr Auditorium (1:50 PM - 2:30 PM)**

**Invited Speaker: Sauro Succi: Boltzmann approach to fluid turbulence - 2nd flr Auditorium (4:00 PM - 4:40 PM)**

## Wednesday, December 4, 2019

**Invited Speaker: Michael Shelley: Instabilities and models of cellular-scale active matter - 2nd flr Auditorium (9:00 AM - 9:40 AM)**

**Invited Speaker: Luca Giomi: Turbulence at 1  $\mu\text{m/s}$ : the strange case of biological active fluids - 2nd flr Auditorium (11:10 AM - 11:50 AM)**

**Invited Speaker: Sriram Ramaswamy: Varieties of Turbulence in Active Fluids - 2nd flr Auditorium (1:50 PM - 2:45 PM)**

**Invited Speaker: Zvonimir Dogic: Chaotic dynamics and topological structure of three-dimensional active nematics. - 2nd flr Auditorium (3:50 PM - 4:30 PM)**

## Thursday, December 5, 2019

**Invited Speaker: Bjorn Hof: Transition Beyond the Transitional Regime - 2nd flr Auditorium (9:00 AM - 9:40 AM)**

**Invited Speaker: Laure Zanna: Scale-aware ocean turbulence closures for climate models - 2nd flr Auditorium (11:10 AM - 11:50 AM)**

**Invited Speaker: Jorn Dunkel: Generalized Navier-Stokes equations for active fluids: From bacterial turbulence to planetary waves - 2nd flr Auditorium (2:20 PM - 3:00 PM)**

# Friday, December 6, 2019

**Invited Speaker: Sandra Lerouge: Elastic Turbulence in Giant Micelles - 2nd flr Auditorium (9:00 AM - 9:40 AM)**