Towards Unifying Concepts in the Physics of Aperiodic Systems

14-15 October 2011

Jadwin Hall
Fourth Floor, Room 407

The aim of this workshop is to bring together a diverse group of scientists to discuss recent developments in our understanding of the formation and structure of aperiodic systems and their physical properties. A variety of aperiodic systems will be considered, including structural and spin glasses, foams, quasicrystals, quantum systems, "hyperuniform" systems, disordered packings, network-forming liquids and biological systems. A general goal will be to explore whether there are unifying concepts that underlie this wide class of aperiodic systems. The workshop will culminate in a discussion that will attempt to assess our current understanding and identify directions for future research.

Please register online at pcts.princeton.edu/pcts

Organizers:
Salvatore Torquato, Pablo Debenedetti, Yoav Kallus, Elisabetta Matsumoto & Paul Steinhardt

Speakers & Discussants

Giulio Biroli, CEA Saclay
Pablo Debenedetti, Princeton University
Kiril Korolev, MIT
David Limmer, UC Berkeley
Marek Mihalkovic, Slovak Academy of Sciences
Richard Prum, Yale University
Sidney Redner, Boston University

David Reichman, Columbia University
Antonello Scardicchio, ICTP
Joshua Socolar, Duke University
Eugene Stanley, Boston University
Paul Steinhardt, Princeton University
Frank Stillinger, Princeton University
Salvatore Torquato, Princeton University