

Workshop on Topology: Identifying Order in Complex Systems

Submitted by admin on Mon, 03/25/2013 - 16:01

Towards a Covariant Theory of Coarsening via Emergent Symmetries

Stephen Watson

University of Glasgow

Date & Time: Wed, 04/03/2013 - 16:30 - 17:30

Location: David Rittenhouse Laboratory, A8

The scaling symmetries of both static and dynamic critical phenomena naturally yield associated power laws and scaling functions. Going beyond simple scalings, we reveal how general emergent symmetries control the coarsening statistics of non-equilibrium phase ordering systems. In particular, we discover that a supersymmetric-Lorentzian-Parabolic symmetry group G governs the surface statistics of a class of non-equilibrium, nano-faceting crystal growth models.

Note: (joint with Math Department)

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Mon, 03/25/2013 - 19:26

Thu, 01/01/1970 (All day)

terms:

- [School of Mathematics](#)