

**CSRC Short Course on  
Renormalization Group Methods and Applications**

21-25 March, 2016

Conference Room II, Level 3, CSRC

	Mon, 21/3	Tues, 22/3	Wed, 23/3	Thur, 24/3	Fri, 25/3
8:30 -	Registration				
9:00 - 10:15	CSRC introduction (CSRC Central, Complex Sys)	Orland (phi-4 theory, epsilon expansion)	Chen Leiming (dynamic RG)	Chen Leiming (phase transition in incompressible flocks)	Conference on recent developments in nonequilibrium StatMech  <u>Morning</u>  a) Quantum quench and (pre)thermalization  b) FDT violation in timescale separated systems  <u>Afternoon</u>  a) p-spin models (paper by Berthier and Kurchan, Nature Phys 2013)  b) Hard sphere glass, colloids under shear, and active colloids, similarities and differences, phase diagram, scaling properties
10:15 - 10:45	tea break				
10:45 - 12:00	Tang (review of equilibrium StatMech, Legendre transforms, Ising model)	Orland (phi-4 theory, epsilon expansion)	Delamotte (NPRG)	Delamotte (NPRG)	
12:00 - 14:00	lunch break				
14:00 - 15:15	Lan Yueheng (nonlinear dynamics, phase space trajectory, fixed point analysis)	Delamotte (NPRG)	Delamotte (NPRG)	Delamotte (NPRG)	
15:15 - 15:45	tea break, discussions				
15:45 - 17:00	Special seminar by Guo Wenan (quantum criticality with two length scales)	Delamotte (NPRG)	Special seminar by Xing Xiangjun (Singular perturbations and the RG)	Group presentations	
18:30 - 21:00	Tutorials on generating fns, functional derivatives, gaussian integrals, etc., led by Lan Yueheng, Tang Leihan and Xing Xiangjun, project discussions				

14/3/16

For updated information, please visit

<http://www.csrc.ac.cn/en/event/schools/2016-02-25/16.html>