

WORKSHOP

“TOPOLOGY, REPRESENTATION THEORY, COHOMOLOGY”

Bernoulli Center - Lausanne, April 4–8, 2005

The workshop is part of the semester program “Group representation theory” organized by Meinolf Geck, Donna Testerman and Jacques Thévenaz at the Bernoulli Center of the EPFL Lausanne, January to June 2005.

Organizer: JACQUES THÉVENAZ.

All lectures take place in **Room BC 01** (ground floor), building BC (south-west of EPFL campus).

Monday 4 April	
8h30–9h15 welcome coffee	
9h15–10h15	JESPER GRODAL (Chicago) <i>Classifying spaces and homology decompositions</i>
10h15 coffee	
10h45–11h45	MARKUS LINCKELMANN (Columbus, Ohio) <i>Introduction to fusion systems</i>
12h00–1300 Lunch (cafeteria of building BC)	
15h15–16h15	RAN LEVI (Aberdeen) <i>p-local finite groups</i>
16h15 tea	
16h45–17h45	CARLES BROTO (Barcelona) <i>Centralizers, normalizers and mapping spaces</i>

Tuesday 5 April	
9h15–10h15	RADHA KESSAR (Columbus, Ohio) <i>Introduction to block theory</i>
10h15 coffee	
10h45–11h45	RADHA KESSAR (Columbus, Ohio) <i>Fusion systems in block theory</i>
12h00–1300 Lunch (cafeteria of building BC)	
15h15–16h15	CARLES BROTO (Barcelona) <i>Homotopy characterization of classifying spaces</i>
16h15 tea	
16h45–17h45	RAN LEVI (Aberdeen) <i>Cohomology rings of p-local finite groups</i>

Wednesday 6 April	
9h15–10h15	LLUIS PUIG (Paris) <i>Frobenius systems and localities: history and survey</i>
10h15 coffee	
10h45–11h45	BOB OLIVER (Paris) <i>The Martino-Priddy conjecture</i>
12h00–1300 Lunch (cafeteria of building BC)	
15h15–16h15	DAVID BENSON (Athens, Georgia) <i>Modular representations and E_∞-ring spectra</i>
16h15 tea	
16h45–17h45	ALEJANDRO ADEM (Madison, Wisconsin) <i>Orbifolds and group cohomology</i>
18h45 Conference dinner, Restaurant de Dorigny (on university campus)	
Thursday 7 April	
9h15–10h15	ANTONIO VIRUEL (Malaga) <i>All p-local finite groups of rank 2</i>
10h15 coffee	
10h45–11h45	BOB OLIVER (Paris) <i>Constructing exotic fusion systems</i>
12h00–1300 Lunch (cafeteria of building BC)	
14h15–15h15	RADU STANCU (Columbus, Ohio) <i>Exotic fusion systems and blocks</i>
15h15 tea	
15h45–16h45	NATALIA CASTELLANA (Barcelona) <i>Subgroup families controlling p-local finite groups</i>
17h15	EPFL Mathematics Colloquium, Room CM3 ALEXANDRE CHORIN (Berkeley, doctor honoris causa of EPFL) <i>Problem reduction and the renormalization group</i>
Friday 8 April	
9h15–10h15	JESPER GRODAL (Chicago) <i>Extensions of p-local finite groups</i>
10h15 coffee	
10h45–11h45	GEOFFREY ROBINSON (Aberdeen) <i>The influence of metacyclic groups on fusion</i>
12h00–1300 Lunch (cafeteria of building BC)	
15h15–16h15	PETER SYMONDS (Manchester) <i>Group actions on modules over a polynomial ring</i>
16h15 tea	
16h45–17h45	JON CARLSON (Athens, Georgia, and Chicago) <i>Coclass and cohomology</i>