

CONFERENCE

“ALGEBRAIC GROUPS AND FINITE REDUCTIVE GROUPS”

Bernoulli Center - Lausanne, June 13–17, 2005

The conference 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.

Organizers: DONNA TESTERMAN AND MEINOLF GECK.

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

Monday, June 13	
8h30 welcome coffee	
9h15–10h15	SUSUMU ARIKI (Kyoto) <i>Cyclotomic Wenzl algebras</i>
10h15 coffee	
10h45–11h45	VICTOR GINZBURG (Chicago) <i>Quantum groups, the loop Grassmannian, and the Springer resolution</i>
12h00–1300 Lunch (cafeteria of building BC or other)	
15h00–15h50	GEORGE MCNINCH (Tufts) <i>The structure of the centralizer of a nilpotent element in good characteristic</i>
16h00 tea	
16h30–17h20	ANDREW MATHAS (Sydney) <i>Rouquier blocks</i>
17h30–18h20	KARIN ERDMANN (Oxford) <i>Tilting modules for q-Schur algebras and ℓ-permutation modules for finite general linear groups</i>

Tuesday, June 14	
9h15–10h15	PHAM TIEP (Gainesville) <i>Hall–Higman type theorem for semisimple elements of finite classical groups</i>
10h15 coffee	
10h45–11h45	GEORGE LUSZTIG (Boston) <i>Unipotent elements in small characteristic</i>
12h00–1300 Lunch (cafeteria of building BC or other)	

Short talk tuesday afternoon session	
15h00–15h20	SIMON GOODWIN (Aarhus) <i>Zeta functions for the number of conjugacy classes in Sylow p-subgroups of Chevalley groups</i>
15h30–15h50	NICOLAS JACON (Caen) <i>Simple modules for Ariki-Koike algebras and crystal graphs of q-deformed Fock spaces</i>
16h00–16h20	MAX NEUNHOEFFER (Aachen) <i>Kazhdan–Lusztig basis and Wedderburn decomposition</i>
16h30 tea	
17h00–17h20	JEAN–BAPTISTE GRAMAIN (Lyon) <i>Generalized perfect isometries</i>
17h30–17h50	JULIA PEVTSOVA (Eugene, Oregon) <i>Generic Jordan type for modular representations</i>
18h00–18h20	ALISON PARKER (Sydney) <i>Higher Extensions between modules for $SL_2(k)$</i>

Wednesday, June 15	
9h15–10h15	TOSHIAKI SHOJI (Nagoya) <i>Generalized Green functions and unipotent classes for finite reductive groups</i>
10h15 coffee	
10h45–11h45	DARRIN FREY (Ohio) <i>Alternating subgroups in exceptional complex Lie groups</i>
12h00–1300 Lunch (cafeteria of building BC or other); AFTERNOON FREE	

Thursday, June 16	
9h15–10h15	BHAMA SRINIVASAN (Chicago) <i>Global-local conjectures in blocks of finite reductive groups</i>
10h15 coffee	
10h45–11h45	GERHARD HISS (Aachen) <i>Donovan's conjecture for finite classical groups</i>
12h00–1300 Lunch (cafeteria of building BC or other)	

Short talk thursday afternoon session	
15h00–15h20	SYBILLE SCHROLL (Oxford) <i>Modular Alvis-Curtis Duality</i>
15h30–15h50	XAVIER YVONNE (Caen) <i>A conjecture for q-decomposition matrices of cyclotomic v-Schur algebras</i>
16h00–16h20	KLAAS SLOOTEN (Stockholm) <i>The R-group for type B affine Hecke algebras</i>
16h30 tea	
17h00–17h20	EMILIE WIESNER (Madison, Wisconsin) <i>Translation functors for the Virasoro algebra</i>
17h30–17h50	JONATHAN KUJAWA (Athens, Georgia) <i>Cohomology and support varieties for Lie superalgebras</i>
18h00–18h20	MICHAEL BATE (Birmingham) <i>Non-connected reductive groups</i>
Thursday 19h00 Conference dinner, Casino de Montbenon (Lausanne)	

Friday, June 17	
9h15–10h15	RAPHAEL ROUQUIER (Paris) <i>Applications of Cherednik algebras to Hecke algebras</i>
10h15 coffee	
10h45–11h45	JON BRUNDAN (Eugene, Oregon) <i>Schur–Weyl duality for higher levels</i>
12h00–1300 Lunch (cafeteria of building BC or other)	
15h00–15h50	GUS LEHRER (Sydney) <i>Euler characteristics of varieties of real algebraic tori</i>
16h00 tea	
16h30–17h20	STEVE DONKIN (London) <i>The characters of the cohomology of line bundles on the three dimensional flag variety in characteristic p</i>