

Topics in Algebra

International conference in honour of Ralf Fröberg's 65th birthday

Stockholms universitet
Department of Mathematics, Kräftriket,
June 12-16, 2009

Conference programme

Friday, June 12

Registration

Chair: Löfwall

09:00–09:50 **Roos** *On some applications of the homological theory of graded skew-commutative rings*

10:00–10:50 **Barucci** *One-dimensional Arf rings and Arf semigroups*

11:00–11:30 Coffee break

11:30–12:20 **Herzog** *Stanley decompositions*

12:30–14:00 Lunch

Chair: Hreinsdottir

14:00–14:35 **Björner** *A q -FKG inequality and series weighted by Young tableaux*

14:40–15:15 **Wulcan** *Sparse effective Nullstellensätze via residue currents*

15:15–15:45 Coffee break

15:45–16:20 **Snellman** *Walks with prescribed degree sequences*

18:00–19:00 Ghost Walk from Järntorget, Old Town

19:30– Dinner at Von der Lindeska Valvet

Saturday, June 13

Chair: Crispin

09:00–09:50 **Trung** *On the Cohen-Macaulayness of symbolic powers of Stanley-Reisner ideals*

10:00–10:50 **Boij** *Decompositions of Betti diagrams*

11:00–11:30 Coffee break

11:30–12:20 **Welker** *Buchsbaum* simplicial complexes*

12:30–14:00 Lunch

Chair: Backelin

14:00–14:35 **Hreinsdóttir** *TBA*

14:40–15:15 **Björck** *Bi-unimodular sequences and cyclic n -roots*

15:15–15:45 Coffee break

15:45–16:20 **Torstensson** *Coset diagrams as a tool in the study of finitely presented groups*

16:25–17:00 **D'Anna** *Analytically unramified one-dimensional semilocal rings and their value semigroups*

Sunday, June 14

16:30–17:00 Visit to a gallery and a gift shop in Gamla Filmstaden

17:00–17:50 Guided tour in Gamla Filmstaden (Swedish Cinecittà)

18:00– Conference dinner at Restaurant Backstugan

Monday, June 15

- Chair: Di Rocco
09:00–09:35 **Backelin** *How completely independence stable triangle free graphs from Ramsey theory yield Gorenstein rings*
09:40–10:30 **Geramita** *TBA*
10:40–11:10 Coffee break
11:10–12:00 **Avramov** *Poincare series of graded modules*
12:00–13:30 Lunch
Chair: Roos
13:30–14:20 **Iarrobino** *Commuting nilpotent matrices and Artinian algebras*
14:30–15:05 **Lundqvist** *TBA*
15:05–15:35 Coffee break
15:35–16:10 **Passare** *Amoebas, residues, and discriminants*
16:15–16:50 **Löfwall** *Infinite filiform Lie algebras*

Tuesday, June 16

- Chair: Barucci
09:00–09:35 **Micale** *On the Buchsbaumness of the associated graded of a semigroup ring*
09:40–10:30 **Di Rocco** *Toric fibrations and Cayley polytopes ring of a semigroup ring*
10:40–11:10 Coffee
11:10–12:00 **Bruns** *Normaliz: algorithms for rational cones and affine monoids*
12:00–13:30 Lunch
Chair: Avramov
13:30–14:05 **Zarzuela** *Apery and Micro-invariants of a one dimensional Cohen-Macaulay ring and invariants of its tangent cone*
14:10–14:45 **Gottlieb** *Joint work with Ralf*
14:45–15:15 Coffee
15:15–15:50 **Emtander** *A well-behaved class of numerical semigroups*
15:55–16:30 **Sköldberg** *TBA*

Closing with cake