

Arithmetic Groups  
April 14–19, 2013  
Schedule

**Sunday, April 14**

16:00 Check-in begins (Front Desk - Professional Development Center - open 24 hours)

Buffet Dinner 17:30 - 19:30

20:00 Informal gathering (Corbett Hall, 2nd floor lounge)

**Monday, April 15**

Breakfast 7:00 - 8:45

**Morning session**

8:45-9:00 Introduction and Welcome by BIRS Station Manager

9:00-9:45 **Kevin Wortman** (University of Utah) *Homological finiteness properties of arithmetic groups in positive characteristic* (mini-course, lecture 1)

10:00-10:30 **Stefan Witzel** (University of Münster, Germany) *Bredon-finiteness properties of solvable arithmetic groups*

Coffee break 10:30 - 11:00

11:00-11:45 **Brian Conrad** (Stanford University) *Pseudo-reductive groups and their arithmetic applications* (mini-course, lecture 1)

Lunch 11:45 - 1:30

13:00-14:00 Guided tour of the Banff Center; meet in 2nd floor lounge, Corbett Hall

14:00 Conference photo; meet in foyer of TCPL

**Afternoon session**

14:15-15:00 **Mikhail Belolipetsky** (IMPA, Brazil) *Arithmetic hyperbolic reflection groups*

Coffee break 15:00-15:30

15:30-16:00 **Ted Chinburg** (University of Pennsylvania) *Generating arithmetic groups by small subgroups using Lefschetz Theorems*

16:15-16:45 **Alan Reid** (University of Texas at Austin) *All finite groups are involved in Mapping Class Groups*

17:00-17:30 **Matthew Stover** (University of Michigan) *Counting ends of rank one arithmetic orbifolds*

Dinner 17:30 - 19:30

**Tuesday, April 16**

Breakfast 7:00 - 9:00

**Morning session**9:00-9:45 **Kevin Wortman** (University of Utah) *Homological finiteness properties of arithmetic groups in positive characteristic* (mini-course, lecture 2)10:00-10:30 **Lizhen Ji** (University of Michigan) *Outer automorphism groups of free groups and tropical geometry*

Coffee break 10:30 - 11:00

11:00-11:45 **Brian Conrad** (Stanford University) *Pseudo-reductive groups and their arithmetic applications* (mini-course, lecture 2)

Lunch 11:45 - 13:30

**Afternoon session**14:00-14:45 **Ralf Köhl** (University of Gießen, Germany) *Towards an arithmetic Kac-Moody theory* (mini-course, lecture 1)

Coffee break 14:45 - 15:30

15:30-16:00 **Igor Rapinchuk** (Yale University) *On the conjecture of Borel and Tits for abstract homomorphisms of algebraic groups*16:15-16:45 **T. N. Venkataramana** (Tata Institute of Fundamental Research, India) *Monodromy and arithmetic groups*

Dinner 17:30 - 19:30

**Wednesday, April 17**

Breakfast 7:00 - 9:00

**Morning session**9:00-9:45 **Ralf Köhl** (University of Gießen, Germany) *Towards an arithmetic Kac-Moody theory* (mini-course, lecture 2)10:00-10:45 **Vladimir Chernousov** (University of Alberta) *A finiteness theorem for the genus*

Coffee break 10:45 - 11:15

11:15-12:00 **Q & A session**

Lunch 12:00 - 13:30

**Afternoon** Informal discussions

Dinner 17:30 - 19:30

**Thursday, April 18**

Breakfast 7:00 - 9:00

**Morning session**9:00-9:45 **Alireza Salehi Golesefidy** (University of California, San Diego)  
*Expansion properties of linear groups*10:00-10:30 **C. S. Rajan** (TIFR, India) *Characteristic equivalence and commensurability of arithmetic lattices*

Coffee break 10:30 - 11:00

11:00-11:45 **Christopher Voll** (University of Bielefeld, Germany) *Representation growth of arithmetic groups*

Lunch 11:45 - 13:30

**Afternoon session**14:00-14:45 **Andrei Rapinchuk** (University of Virginia) *On the congruence subgroup problem*

Coffee break 14:45 - 15:30

15:30-16:00 **Benjamin Klopsch** (Royal Holloway University of London, UK)  
*Representation growth of irreducible lattices in higher rank semisimple groups*16:15-16:45 **Pavel Zalesski** (University of Brasilia, Brazil) *Profinite topology on arithmetic groups*17:00-17:30 **Vincent Emery** (Stanford University) *Bounds for torsion homology of arithmetic groups*

Dinner 17:30 - 19:30

**Friday, April 19**

Breakfast 7:00 - 9:00

**Morning session**9:00-11:30 *T. B. A.*

Lunch 11:30 - 13:30

**DEPARTURE***All participants are required to check out by 12 noon*

- All lectures will be held in the TransCanada Pipelines Pavilion (TCPL)
- All meals will be served in Sally Borden Building:
  - Breakfast: 7:00 – 9:30 (Monday – Friday),
  - Lunch: 11:30 – 13:30 (Monday – Friday),
  - Dinner: 17:30 – 19:30 (Sunday – Thursday).
- Coffee Breaks: foyer of TCPL