

Hausdorff Institute Program

“Logic and algorithms in group theory”, Sept 3 – Dec 20

Below we identify “Schwerpunkt” themes and activities for particular weeks. Other topics will be treated as well during these times, depending on the visiting dates of the relevant experts. The summer school and international workshop will attempt to cover the breadth of the programme.

10-14 September: Autumn School

Short lecture courses accessible to students by

- Maurice Chiodo (Cambridge)
- Gerhard Hiss (Aachen)
- Derek Holt (Warwick)
- Dugald Macpherson (Leeds)
- Andreas Thom (Dresden)

17-28 September: Free groups, automorphisms, Property (T); hyperbolic groups etc

Short lecture courses by

- Martin Bridson (Oxford), 17, 18 Sept
- Gaven Martin (Massey), 24, 26, 28 September, 14-15 Random Groups and Surfaces
- Henry Wilton (Cambridge), 24, 26, 28 September, 10 - 11, Surface subgroups of graphs of free groups

1 October - 12 October: Computational Group Theory

Short lecture courses by

- Bettina Eick (Braunschweig)
- Gabrielle Nebe (RWTH Aachen)
- Sarah Rees (Newcastle)

15 October - 19 October: Expanders, approximate subgroups

Short lecture course by

- Harald Helfgott (Göttingen)

22 October - 26 October: International Conference

29 October - 9 November: Model Theory

Short lecture courses by

- David Evans (Imperial)
- Simon Thomas (Rutgers)

There will also be a talk by Willem Fouche (Unisa) related to randomness.

19 November - 23 November: Groups of finite Morley rank

Short lecture course by

- Joshua Wiscons (California State University)

26 November - 30 November: Small Cancellation Theory

Short lecture course by

- Colva Roney-Dougal (St Andrews)

3 December - 14 December: Randomness in groups

Individual lectures by

- Alex Gamburd (CUNY)
- Turbo Ho (Purdue)
- Martin Kassabov (Cornell)
- Bakh Khoussainov (Auckland)
- Martin Liebeck (Imperial College)

There will be talks on related topics by

- Gunter Malle (Kaiserslautern)
- Cheryl Praeger (Western Australia)
- Aner Shalev (Hebrew University)