

Braids, Resolvent Degree and Hilbert's 13th Problem

Tuesday February 19, 2019

- 8:00–8:55 *Check-In/Light Breakfast (Hosted by IPAM)*
- 8:55–9:00 *Welcome and Opening Remarks*
- 9:00–9:50 **Jesse Wolfson** (University of California, Irvine (UCI))
After Abel
- 10:00–10:15 *Break*
- 10:15–11:05 **Alexander Merkurjev** (University of California, Los Angeles (UCLA))
Essential Dimension I
- 11:15–11:30 *Break*
- 11:30–12:20 **Jesse Wolfson** (University of California, Irvine (UCI))
Resolvent Degree and Classical Solutions
- 12:30–2:00 *Lunch (on your own)*
- 2:00–2:50 **Keerthi Madapusi Pera** (Boston College)
Introduction to the Siegel modular variety and its ordinary locus
- 3:00–3:30 *Break*
- 3:30–4:20 **Askold Khovanskii** (University of Toronto)
Topological approach to 13th Hilbert problem
- 4:30–6:00 *Reception (Hosted by IPAM)*

Wednesday February 20, 2019

- 8:00–9:00 *Check-In/Breakfast (Hosted by IPAM)*
- 9:00–9:50 **Alexander Merkurjev** (University of California, Los Angeles (UCLA))
Essential Dimension II
- 10:00–10:15 *Break*
- 10:15–11:05 **Mark Kisin** (Harvard University)
Essential dimension and moduli of abelian varieties
- 11:15–11:30 *Break*

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- 11:30–12:20 **Hélène Esnault** (Freie Universität Berlin)
Arithmetic subspaces of moduli spaces of rank one local systems
- 12:30–2:00 *Lunch (on your own)*
- 2:00–2:50 **Anatoly Libgober** (University of Illinois at Chicago)
Asymptotic of invariants of quasi-projective fundamental groups.
- 3:00–3:30 *Break*
- 3:30–4:30 **Lightning Session**
Weiyang Chen (Minnesota), Ronno Das (UChicago), Rachel Davis (Wisconsin), Federico Scavia (UBC), Abishek Shukla (UBC), Padmavathi Srinivasan (Georgia Tech), Rebecca Winarski (University of Michigan), and Lynnelle Ye (Harvard).
- 4:30–6:00 *Problem session*

Thursday February 21, 2019

- 8:00–9:00 *Check-In/Breakfast (Hosted by IPAM)*
- 9:00–9:50 **Jesse Wolfson** (University of California, Irvine (UCI))
Resolvent Degree and the Search for Lower Bounds
- 10:00–10:15 *Break*
- 10:15–11:05 **Laure Flapan** (Northeastern University)
Monodromy of Kodaira fibrations and moduli of abelian varieties
- 11:15–11:30 *Break*
- 11:30–12:20 **Alexander Suciu** (Northeastern University)
Braids, hyperplane arrangements, and Milnor fibrations
- 12:30–2:00 *Lunch (on your own)*
- 2:00–2:50 **Alexander Duncan** (University of South Carolina)
Finite Groups of Low Essential Dimension
- 3:00–3:30 *Break*
- 3:30–4:20 **Daniel Litt** (Institute for Advanced Study)
Arithmetic and the representation theory of fundamental groups

