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Logic in Southern California Caltech

Saturday, February 18
2:00 - 6:00 pm
Sloan room 151

Funded by NSF grant DMS-1044150

Schedule:

2:00-3:00 [Zachary Faubion \(UCI\)](#)
3:15-4:15 [Aleksandra Kwiatkowska \(UIUC\)](#)
4:15-5:00 Coffee Break
5:00-6:00 [Justin Palumbo \(UCLA\)](#)

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Abstracts:

Zachary Faubion (UCI)

Title: Improving the Consistency Strength of Reflection at $\aleph_{\omega+1}$

Abstract: [pdf](#)

Aleksandra Kwiatkowska (UIUC). [Speaker information](#)

Title: The group of all homeomorphisms of the Cantor set has ample generics

Abstract: There are various notions of largeness of conjugacy classes in topological groups: the Rokhlin property, the strong Rokhlin property, and ample genericity. We give examples and state properties of groups with large conjugacy classes. Then, we focus on the group of all homeomorphisms of the Cantor set, $H(K)$. Answering a question of Kechris and Rosendal, we show that $H(K)$ has ample generics, that is, we show that for every m the diagonal conjugacy action of $H(K)$ on $H(K)^m$ has a comeager orbit. I plan to sketch the proof of this result in as many details as time permits.

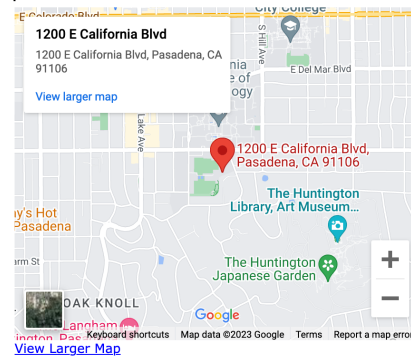
Justin Palumbo (UCLA). [Speaker information](#)

Title: Unbounded and dominating reals in Hechler extensions

Abstract: We present results exploring the relationship between dominating and unbounded reals in the Hechler extension and its variations, as well as the relationships between the extensions themselves. We describe the impact of these results on some recent work of Brendle and Loewe. The main structural result is a representation theorem for the dominating reals in the Hechler extension: every dominating real eventually dominates the sandwich composition of the Hechler real with two ground model reals that monotonically converge to infinity. From this we derive the answer to a question due to Laflamme.

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Directions and Parking:



Address:
1200 E. California Blvd.
Pasadena, CA 91125

Take a look at the [Caltech campus map](#).

There is free Saturday parking in underground structure **#126**. Feel free to park in any of the commuter spaces (these are marked by a red line).

Talks will be held in Sloan building **#37**, Room 151 on the ground floor

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Organizers:

Alexander Kechris (Caltech). [Organizer Information](#)
Itay Neeman (UCLA). [Organizer Information](#)
Martin Zeman (UCI) [Organizer Information](#)

Local Organizers:

Alexander Kechris (Caltech)
Robin Tucker-Drob (Caltech) [Local Organizer Information](#)

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Past Meetings:

[December 3, 2011 - at UC Irvine](#)

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