



Schedule	Abstracts	Directions and Parking	Organizers	Past Meetings
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Logic in Southern California Caltech

Saturday, March 8, 2014
2:00 - 6:00 pm
Sloan room 151

Funded by NSF grant DMS-1044150

Schedule:

2:00-3:00 Erik Walsberg (UCLA)
3:15-4:15 Henry Macdonald (Caltech)
4:15-5:00 Coffee Break
5:00-6:00 Andres Forero (UCI)

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Abstracts:

Erik Walsberg (UCLA). [Speaker Information](#)

Title: Metric geometry in the O-minimal setting.

Abstract: I will discuss the geometry of those metric spaces which are definable in o-minimal expansions of fields.

Henry Macdonald (Caltech).

Title: Descriptive combinatorics

Abstract: In combinatorics, the axiom of choice is often used to justify the existence of a certain object - a graph coloring, say, or a matching. In descriptive combinatorics, we ask: what happens if we place definability restrictions from descriptive set theory on these objects? I will discuss various situations where these considerations give rise to some interesting questions. In particular, I will discuss "Borel chromatic numbers", and a result about extending a combinatorial argument from cardinal arithmetic to the field of Borel equivalence relations.

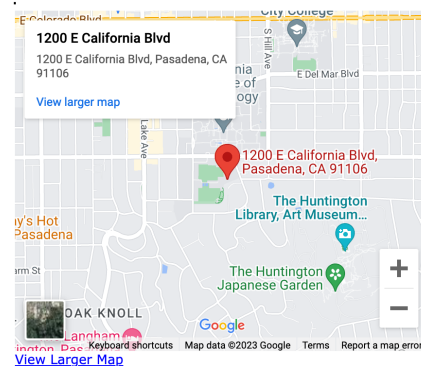
Andres Forero (UCI). [Speaker information](#)

Title: Consistency strength of Stationary Catching

Abstract: In this talk we will give a brief overview of Generic large cardinal axioms and their motivation. In concrete we consider certain collections of structures that behave nicely with respect to a fixed ideal on ω_2 , and introduce axioms asserting that these collections are large. We will specifically consider the consistency strength of the Stationary Catching Axiom (which is a weakening of the saturation of an ideal), in terms of Woodin cardinals. For this purpose, we will describe two important techniques used: the core model induction, and covering arguments.

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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) [Organizer Information](#)
Andrew Marks (Caltech) [Organizer Information](#)
Jay Williams (Caltech) [Organizer Information](#)

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[Earlier meetings](#)