Mathematics 253-37 | Caltech
1200 E California Blvd | Pasadena, CA 91125
Tel: (626) 395-4335 | Fax: (626) 585-1728



# Logic in Southern California
# Caltech

**Saturday, November 17, 2012**
**2:00 - 6:00 pm**
**Sloan room 151**

**Funded by NSF grant DMS-1044150**

## Schedule:

2:00-3:00 Aleksandra Kwiatkowska (UCLA)
3:15-4:15 Miodrag Sokic (Caltech)
4:15-5:00 Coffee Break
5:00-6:00 Andrew Marks (Caltech)

Return to top

## Abstracts:

**Aleksandra Kwiatkowska (UCLA).** Speaker information

**Title:**Comeager conjugacy classes in automorphism groups and the pseudo-arc
**Abstract:** The pseudo-arc is an important example of a hereditary indecomposable compact and connected space. As proved by Irwin and Solecki, the pseudo-arc can be realized as a natural quotient of a certain projective Fraisse limit L. We show that the group of all automorphisms of L, Aut(L), has a comeager conjugacy class. This generalizes a very recent result due to Oppenheim, who showed that Aut(L) has a dense conjugacy class.

**Miodrag Sokic (Caltech).** Speaker information

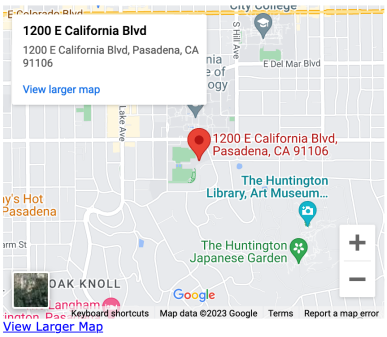
**Title:** A generalization of the Partite Construction
**Abstract:** The Ramsey property for ordered graphs was proved independently by Nesetril-Rodl and Abramson-Harrington. The main ingredient of the Nesetril-Rodl proof is the so-called partite lemma, which shows that only specific objects, called transversals, have the Ramsey property. We give a generalization of this lemma by replacing transversal objects by arbitrary objects in the corresponding class of finite relational structures. In particular we consider relational classes obtained by adding unary relations or equivalence relations to structures. We obtain not only combinatorial results but we also give a topological interpretation of our results. We calculate the universal minimal flow for certain groups of automorphisms of countable structures.

**Andrew Marks (Caltech).** Speaker information

**Title:** Borel combinatorics and the Borel cardinality of recursive isomorphism
**Abstract:** We use determinacy to settle several questions in Borel combinatorics related to colorings and matchings of n-regular graphs. We then describe how these results can be used to show that recursive isomorphism on $2^{\omega}$ is not a universal countable Borel equivalence relation in a "nicely uniform" way.

Return to top

## Directions and Parking:




View Larger Map

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 159 on the ground floor

Return to top

## 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

Return to top

## Past Meetings:

May 12, 2012 - at UCLA

February 18, 2012 - at Caltech

December 3, 2011 - at UC Irvine

Return to top