



October 5, 2006

## 07pims010: Ramsey Theory: The Future Is Now

### Organizers:

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### Location:

Simon Fraser University

### PIMS Sites:

Simon Fraser University

### Objectives:

The main objective of this conference is to bring together a group of young researchers in Ramsey theory and to give them an opportunity to meet, exchange their experiences, share their interests, and work together.

In the last few decades, problems that originated in Ramsey theory accelerated a string of new techniques and results in ergodic theory and harmonic analysis. The participants of the conference belong to the new generation of mathematicians that use combinatorial, ergodic, or analytical tools in Ramsey theory.

The main focus of the conference will be in mapping out directions for future research in the field, showing how recently developed techniques in each of its main areas may be applicable to the solution of other problems in the field, both new and old.

## Comments:

This conference/workshop has a twofold role. First is to be a testimonial about the current stage of the vibrant community of researchers who in recent years have brought new insights in solving Ramsey-type problems. Secondly, the conference will be a place where a group of talented mathematicians will set up their future goals, both as individuals and as members of the community.

## Audience:

The intended audience are graduate students and researchers in early stages of their careers, approximately up to 10 years after Ph.D. The main theme of the conference will be Ramsey theory as a cross-section of combinatorics, ergodic theory, and harmonic analysis, so participants will come from various fields, but with the common interest in the Ramsey-type problems.

Provisions for students will be in learning about new problems and techniques, in sharing their interests and ideas with their peers, in working with already established researchers, and in meeting people with whom they will share the field of Ramsey theory for many years to come.

Even though the main focus of the conference is on researchers in early stages of their careers, the conference will attract other researchers interested in Ramsey theory.

## Participants:

Ben Green, Rados Radoicic, Nikos Frantzikinakis, Maria Axenovich, Jacob Fox, David Conlon, Tamar Ziegler, Michael Johnson, Tom Sanders, Alexander Fish, Ciprian Demeter, Ernie Croot, David Gryniewicz, Kevin O'Bryant, Demetres Christofides

## Amount Requested:

18800.00

## Expenditures:

16 invited speakers - travel, accommodation, and meals:  
12 speakers from North America  $(500+400+200) \times 11 = \$13200$   
4 speakers from Europe  $(800+400+200) \times 4 = \$5600$   
5 Day Event in IRMACS \$ 5000  
Food  
Coffee breaks \$700  
1 lunch \$800

1 reception \$ 1500

Total: \$26800

**Income:**

Registration \$6000

University \$2000

PIMS \$18800

Total: \$26800

**Selected Dates:**

Mon, May 7, 2007

Fri, May 11, 2007