College of Arts and Sciences
Interdisciplinary Mathematics Institute
University of South Carolina, Columbia, SC, USA

NSF-CBMS Conference on
Additive Combinatorics from a Geometric Viewpoint

May 21-25, 2018

APPLICATION DEADLINE:
January 31, 2018
APPLY ONLINE AT:
http://mathprograms.org/db/programs/622

Additive combinatorics is a very active area of mathematics. It is the crossing point of number theory, harmonic analysis, ergodic theory, and combinatorics. Through a series of 10 principal lectures, Dr. József Solymosi (University of British Columbia) will provide an elementary introduction to additive combinatorics using discrete geometry, algebra, extremal combinatorics, and a bit of algebraic geometry. He will also show how to apply these techniques in order to attack Erdős type problems in discrete geometry.

The principal lectures will be complemented by 4 one-hour lectures by Gyula Károlyi, Giorgis Petridis, Orit Raz, and Joshua Zahl.

Problems to be solved will be distributed and discussed. Open problem sessions will provide opportunity for collaboration among the participants.
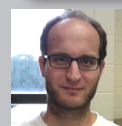
Principal Speaker:
József Solymosi
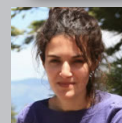University of British Columbia, Vancouver

Gyula Károlyi
Rényi Institute, Budapest, Hungary

Giorgis Petridis
University of Georgia, Athens, GA

Orit Raz
University of British Columbia, Vancouver

Joshua Zahl
University of British Columbia, Vancouver

This program is designed for graduate students and early-career researchers working on related topics, and to help those who intend to enter the field.

Limited financial support for accepted participants is available. For more information, please visit the **conference website** at:
• **http://imi.cas.sc.edu/events/nsf-cbms/**

Organizers: László Székely (Chair), Éva Czabarka and Frank Thorne
University of South Carolina, Department of Mathematics

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