

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.

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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Principal Speaker:

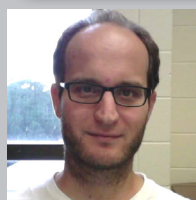
József Solymosi

University of British Columbia,
Vancouver



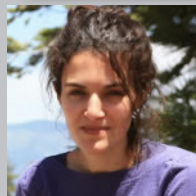
Gyula Károlyi

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



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