

July 11-18, 2014



Workshop on **Analytic Number Theory** ENFANT: July 11-12 / ELEFANT: July 14-18

Organizers: Lillian Pierce, Damaris Schindler

Analytic number theory has seen a number of startling successes in the last decade, including results on arithmetic progressions in primes and connections to ergodic theory; the development of the affine sieve and applications to Apollonian circle packings and thin groups; a breakthrough on Vinogradov mean value theorems with applications to Waring's problem; the resolution of the ternary Goldbach conjecture; and brilliant new results on bounded gaps between primes. This workshop will celebrate these new results and explore many current developments in analytic number theory, including evolving connections to related fields.

ENFANT Exciting New Faces in Analytic Number Theory
 Pre-workshop for young researchers

ELEFANT Emerging Leaders and Evolving Frontiers in Analytic Number Theory

Invited speakers

Valentin Blomer
 Kathrin Bringmann
 Tim Browning
 Jörg Brüdern
 Alina Bucur
 Mei-Chu Chang*
 Alina Carmen Cojocaru
 Chantal David
 Rainer Dietmann

Kevin Ford
 Elena Fuchs
 Jayce Getz
 Ben Green
 Heekyoung Hahn
 Roger Heath-Brown
 Alex Kontorovich
 Matilde Lalín

James Maynard
 Nina Snaith
 Kannan Soundararajan
 Terence Tao
 Lynne Walling
 Julia Wolf
 Trevor Wooley
 Yitang Zhang*