10:00 **Larry Guth** (MIT)
Introduction to decoupling
Introduced by Nets Katz (Caltech)

11:00 Coffee

11:30 **Betrand Toën** (CNRS)
Algebraic geometry, categories and trace formulas
Introduced by Balázs Szendrői (Oxford)

12:30 Lunch

14:00 **Ovidiu Savin** (Columbia)
From second order equations to nonlocal PDEs
Introduced by Luis Caffarelli (Austin)

15:00 Coffee

15:30 **Tamar Ziegler** (Hebrew University)
Dynamics, arithmetic progressions and approximate cohomology
Introduced by Tom Ward (Leeds)

16:30 **Carlos Kenig** (Chicago)
The work of Aleksandr Logunov and Eugenia Malinnikova

Henry Cohn (Microsoft and MIT)
The work of Maryna Viazovska

Richard Clay
Presentation of 2017 Clay Research Awards

17:30 Reception

Larry Guth is Professor of Mathematics at MIT. He obtained his PhD from MIT in 2005 under the supervision of Tomasz Mrowka. His research covers a wide range of problems in metric and combinatorial geometry as well as harmonic analysis. He was an invited speaker at the ICM at Hyderabad in 2010, where his talk focused on different ways of looking at Gromov's systolic inequality for tori. In 2015 Larry Guth and Nets Katz were jointly presented with a Clay Research Award for their solution of the Erdős distance problem and for other joint and separate contributions to combinatorial incidence geometry.

Bertrand Toën is *Directeur de Recherche* at CNRS, and a permanent member of IMT in Toulouse. He obtained his PhD in 1999 from the University of Toulouse under the supervision of Joseph Tapia and Carlos Simpson. His research lies in Algebraic Geometry, Algebraic Topology, and Category Theory. In 2014, he gave an invited lecture at the ICM at Seoul on *Derived algebraic geometry and deformation quantization.*

Ovidiu Savin is Professor of Mathematics at Columbia University. He obtained his PhD in 2003 at the University of Texas at Austin under the supervision of Luis Caffarelli. He is best known for his important work on De Giorgi's conjecture about global solutions to certain semilinear equations, which he proved up to dimension eight and on which he spoke in an invited lecture at at the International Congress of Mathematicians in 2006 at Madrid. He was awarded the Stampacchia Medal in 2012.

Tamar Ziegler is Professor of Mathematics at the Hebrew University of Jerusalem. She obtained her PhD in 2003 under the supervision of Hillel Furstenberg. Her research has focused on ergodic theory, and its application to combinatorical and additive number theory, and extensions of the Green-Tao Theorem. In 2014, she gave an invited lecture on *Linear equations in primes and dynamics of nilmanifolds* at the ICM in Seoul. She was awarded the Erdős Prize in Mathematics in 2011 and was the EMS lecturer of the year in 2013.