2:00 pm | Will Perkins  
*Georgia Tech*  
**Searching for (sharp) thresholds in random structures: where are we now?**  
Phase transitions, hard computational problems, and the emergence of intricate structures in random graphs—how are these phenomena connected and how can we understand them?

3:00 pm | Hussein Mourtada  
*Université Paris Cité*  
**Hilbert meets Ramanujan: singularity theory and integer partitions**  
What can singularities of algebraic varieties say about the various decompositions of a positive integer into a sum of positive integers?

4:00 pm | Holly Krieger  
*University of Cambridge*  
**Uniformity when arithmetic meets geometry**  
Understanding how algebra and geometry provide uniform control over the number of rational points on a curve.

5:00 pm | Ravi Vakil  
*Stanford University*  
**Passing a curve through n points—solution of a 100-year-old problem**  
When can you string a curve through a number of points in space? How two young researchers finally settled an ancient problem.  
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Organized by David Eisenbud, *University of California, Berkeley*