1:00 PM

Jared S. Weinstein, Boston University

Exploring the Galois group of the rational numbers: Recent breakthroughs.
There’s a deep analogy between number fields and curves over finite fields. Learn about Peter Scholze’s work establishing a new and more direct connection.

2:00 PM

Andrea R. Nahmod, University of Massachusetts, Amherst

The nonlinear Schrödinger equation on tori: Integrating harmonic analysis, geometry, and probability.
One of the most important and classical partial differential equations, in a broad modern context.

3:00 PM

Mina Aganagic, University of California, Berkeley

String theory and math: Why this marriage may last.
Is string theory physics? Is it math? Both? What’s going on now? Hear a report from the front!

4:00 PM

Alex Wright, Stanford University

From rational billiards to dynamics on moduli spaces.
Dynamical systems in some old and some very modern settings. Come hear about one of the things for which Maryam Mirzakhani won the Fields Medal in 2014!