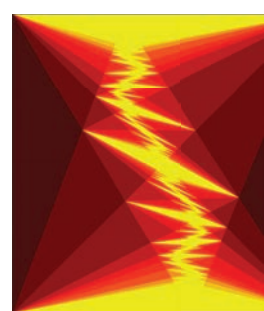# The 2017 AMS Einstein Public Lecture in Mathematics
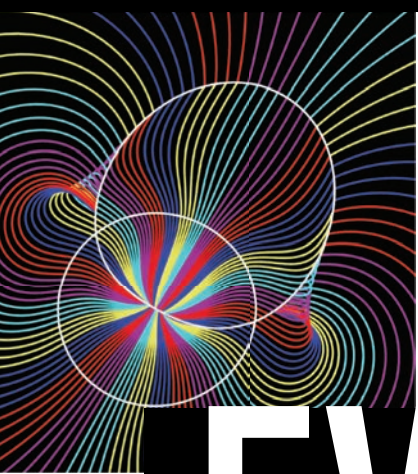
RICHARD EVAN SCHWARTZ
BROWN UNIVERSITY

MODERN SCRATCH PAPER:

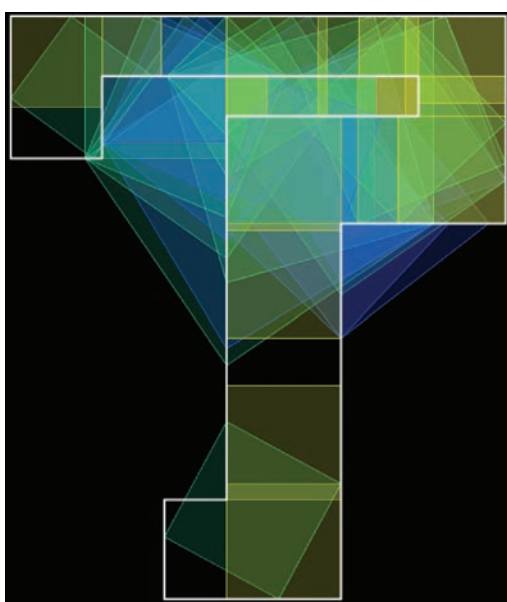### Graphical explorations in geometry and dynamics

Courtesy of Richard Evan Schwartz

SATURDAY, APRIL 1 AT 5:15 PM
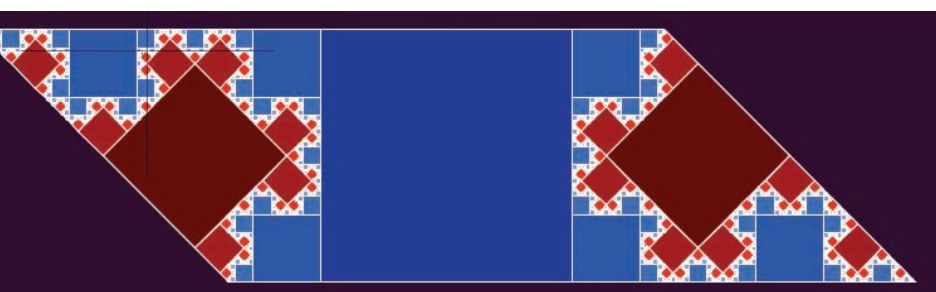
Woodburn Hall Room 100 | Indiana University
Reception to follow.
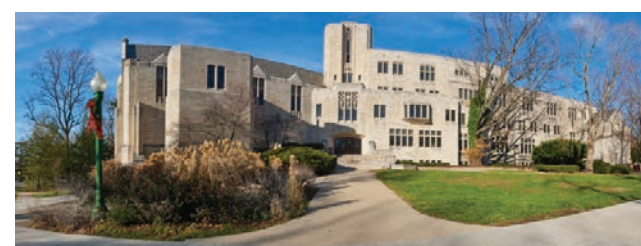
Courtesy of Indiana University

Schwartz, Chancellor's Professor of Mathematics at Brown, is a Guggenheim Fellow, a Clay Research Scholar, and a Simons Fellow. Among his many publications are several popular math books for children, including *You Can Count on Monsters* and *Really Big Numbers.* In this lecture, Schwartz will show some of his graphical user interfaces that are designed to help to understand problems in geometry and dynamics and explain the mathematics behind them. The interfaces let you discover patterns and organize information in a way that would be practically impossible using pencil and paper, and sometimes also facilitate computational proofs that are a kind of deal with the devil: They give a rigorous proof for an appealing result without offering conventional insight into why the result is true.

The Einstein Lecture is part of the Spring 2017 AMS Central Sectional Meeting (April 1-2) at Indiana University.

Event details: http://www.ams.org/meetings/sectional/2233_events.html
Sectional details: http://www.ams.org/meetings/sectional/2233_program.html

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