

The Department of Mathematics presents the

Dr. Marjorie Lee Browne Colloquium

as part of the University of Michigan's
Rev. Dr. Martin Luther King, Jr. Symposium



Professor Ryan Hynd

Associate Professor of Mathematics
University of Pennsylvania

Shapes of Constant Width

It is a great honor for me to speak in the Marjorie Lee Browne Colloquium series and to help celebrate her legacy this Martin Luther King Jr. Day. In my talk, I will discuss a favorite topic of mine: shapes of constant width. In the plane, they are closed convex curves which have the property that any two parallel supporting lines are the same distance apart in all directions. A fundamental problem involving these curves is to find one which encloses the smallest amount of area. This was resolved long ago, and I'll explain a few ways to address this problem. I'll also mention what is known in three dimensions, including that the least volume shape has yet to be found.

Monday, January 18, 2021
4:00-5:00 p.m.

Zoom link <https://umich.zoom.us/j/94360517246>
Passcode 314668

The Colloquium honors Dr. Marjorie Lee Browne, the first African-American woman to earn a PhD in Mathematics from the University of Michigan. It is supported by the Carroll V. Newsom fund.

For information please see lsa.umich.edu/math/seminars/mlk/