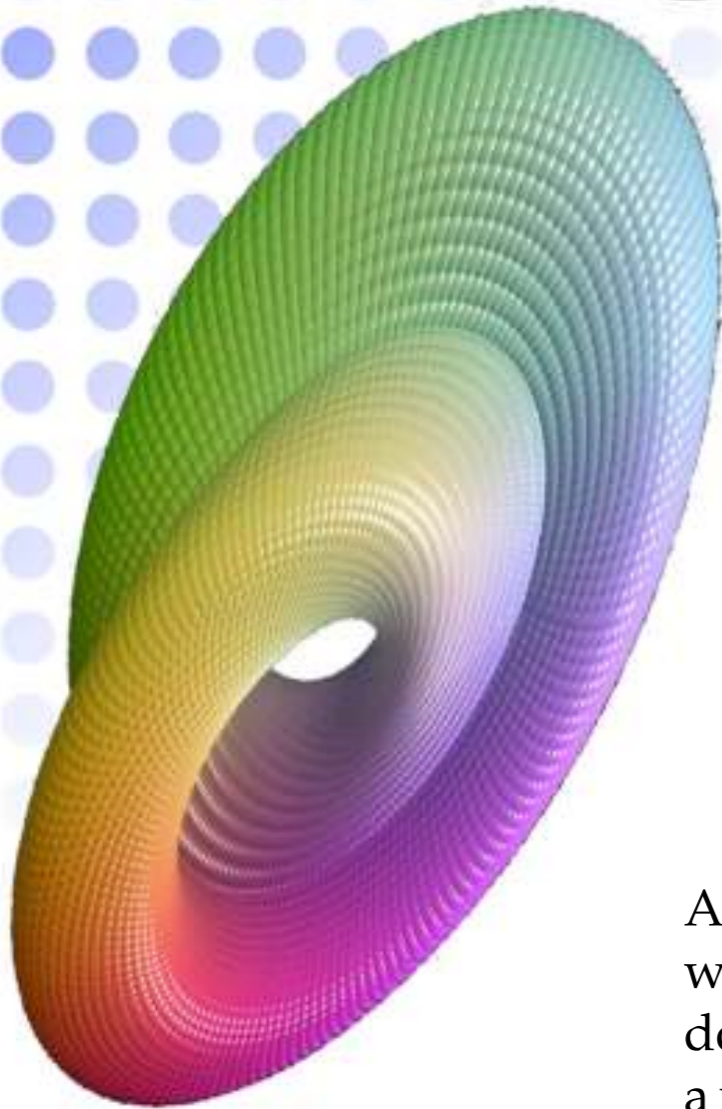


# Michigan Math Club

Thursday at 4pm in the Nesbitt Room  
Free Pizza and Pop



*How many evenly-curved  
once-punctured tori are there?*

Alex Wright • 29 November 2018

A sphere is evenly curved, and any bend or dent will result in a less perfect shape. However, a donut with one point removed turns out to have a whole universe of optimal, evenly curved shapes.



The talk will introduce hyperbolic geometry, and how it can be used to construct these optimal shapes. We will then discuss Maryam Mirzakhani's computation of the "size" of the universe of all possible such optimal shapes. Mirzakhani's computation was a precursor to some of her Fields Medal-winning work.