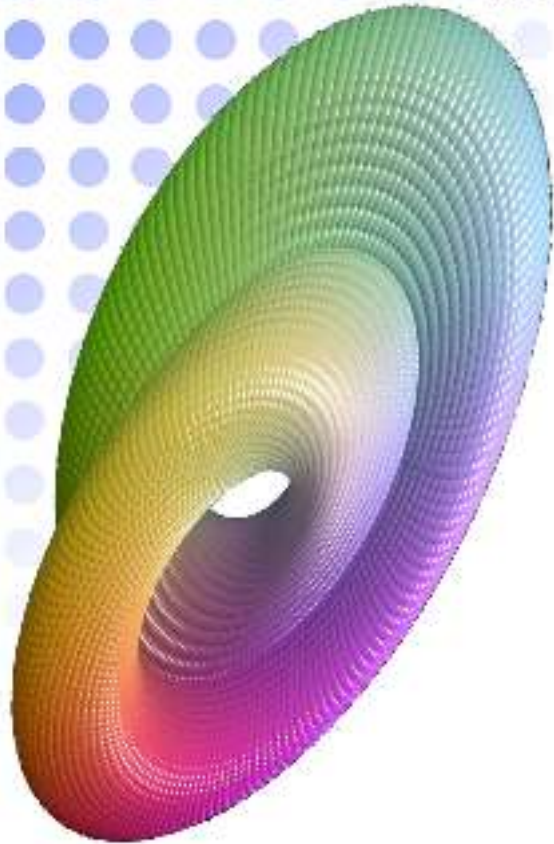# Michigan Math Club

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

# Graph Theory and Probability

## Alexander Leaf

Abstract for 5 Nov. 2015

Suppose you're asked whether any graphs have property X. You have no idea how to draw such a graph. However, suppose you can draw a graph randomly, and you can show that your graph will have property X with probability greater than zero. This means that there do exist graphs will property X, even if you don't know how to draw them. In this talk, we will discuss this powerful line of reasoning. No knowledge of graph theory or probability will be assumed.