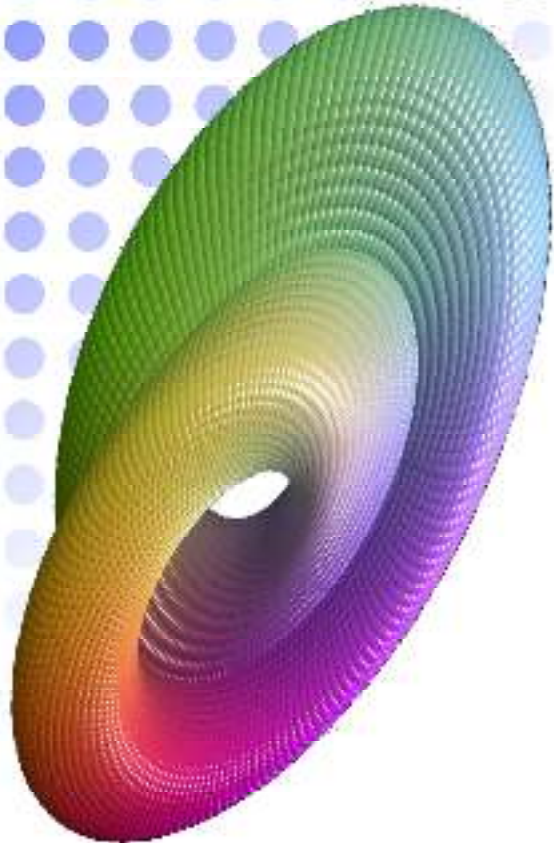


Michigan Math Club

Thursday at 4pm in the Commons

Free Pizza and Pop



Expander Graphs

Matthew Stover

Abstract for 13 Sept. 2012

Expander graphs are families of graphs that are 'sparse' and 'highly connected'. That is, the graph has a relatively small number of edges, but is also very difficult to disconnect by removing some vertices. These families have countless applications to computer science, transportation networks, and error correcting codes. I will first discuss examples, and how one measures expansiveness. Then I will explain how one can construct expander families using the geometry of surfaces.

