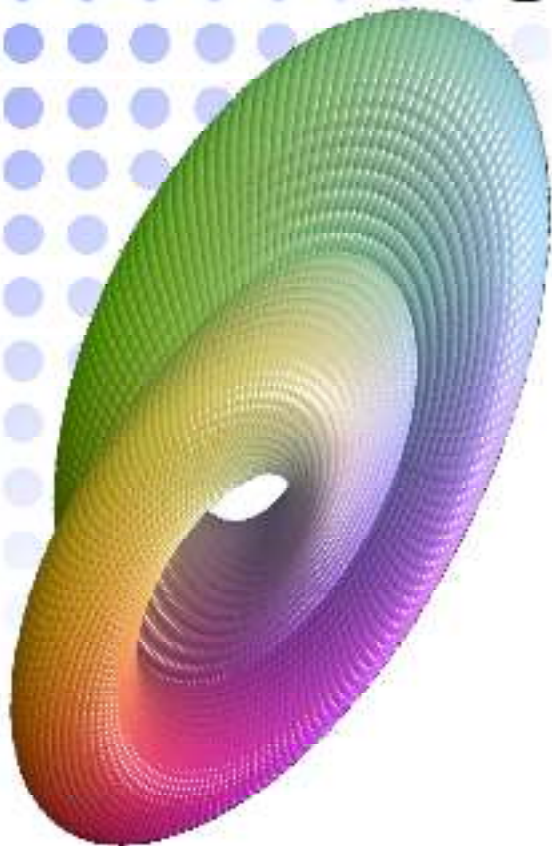


# Michigan Math Club

Thursday at 4pm in the Commons

Free Pizza and Pop



## Nuclei, Primes and Random Matrices

David Montague

Abstract for 28 January 2010



In the early 1970's a remarkable connection was discovered between two different fields—nuclear physics and number theory. The connection was that random matrix theory accurately modeled problems in both fields. Here we will describe the connection between random matrix theory and number theory. We assume no familiarity with either subject. A basic understanding of linear algebra and probability theory may help but is not necessary. This talk is based on topics studied and on work done at an REU program at Williams College, the SMALL 2009 program.