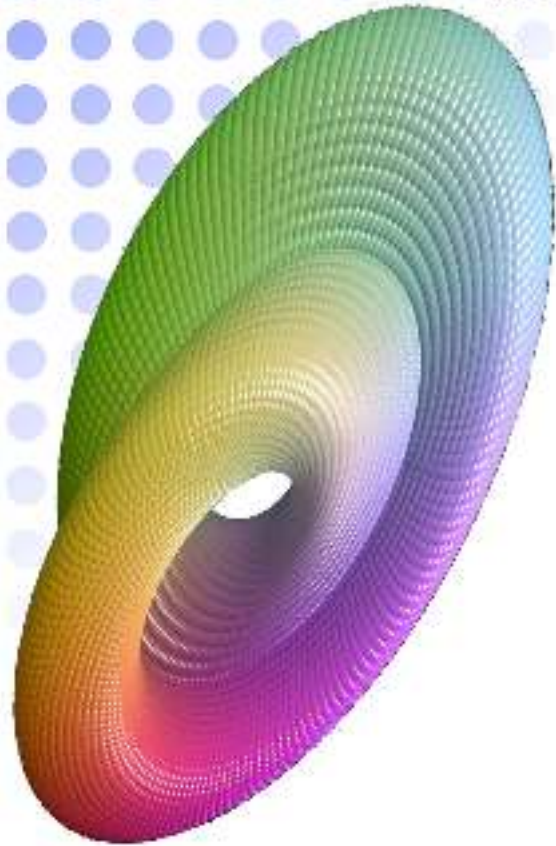


Michigan Math Club

Thursday at 4pm in **East Hall 2851**
(Nesbitt Room) Free Pizza and Pop



Arrow's Impossibility Theorem

Alex Mueller

Abstract for 19 Jan. 2012

In 1951 Kenneth Arrow proved it is impossible to construct a voting system that simultaneously agrees with all our different notions of "fairness." I will discuss his impossibility theorem, outline its proof, and give some historical examples of the theorem in action. I will also discuss a way out: for an infinite number of votes an ultrafilter can overcome Arrow's theorem.

