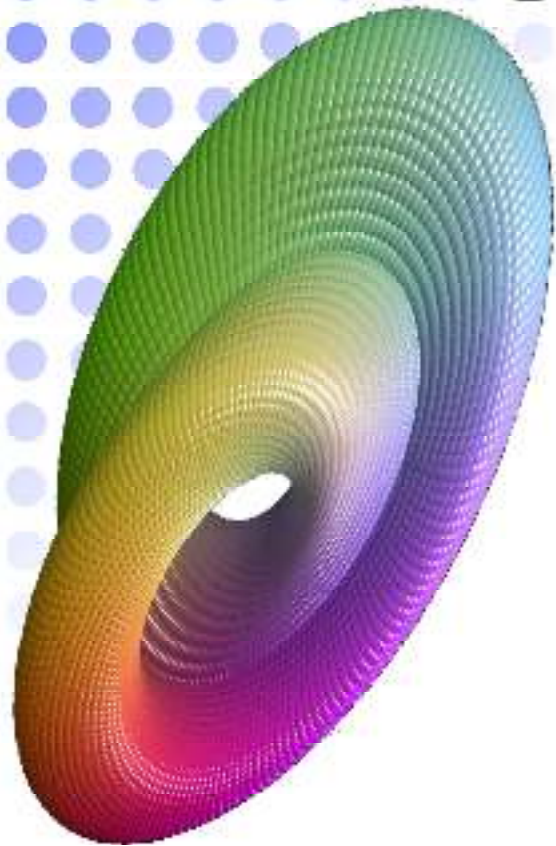


Michigan Math Club

Thursday at 4pm in the Commons

Free Pizza and Pop



The Beauty of Statistical Tests

Igor Kriz

Abstract for 28 Feb 2013

I will discuss the rather beautiful and striking properties of the normal (Gaussian) distribution, and why it plays such a prominent role in statistics. I will relate the multivariable Gaussian distribution to finding the principal axes of an ellipse. Then I discuss the mathematics behind two famous statistical tests: the chi-squared test and the Student t test. (The talk is informal, no knowledge of probability theory is assumed.)

