Department of Mathematics and Statistics Colloquium

Numerically evaluating oscillating infinite integrals, and a failed (of course) approach to the Riemann Hypothesis

Stephen Lucas, JMU

Abstract: There are a variety of applications where infinite integrals that oscillate occur, where standard numerical approximation techniques arent appropriate. The first part of this talk will some of these application areas, and how to approximate the integrals efficiently. The second part of the talk will show how one way of looking at the famous Riemann hypothesis can lead to a class of infinite integrals. Of course, it doesnt work :-)

Monday, September 15 at 3:45 in Roop 103

refreshments at 3:30