

Institute for Mathematics and its Applications
2012 Seminar Series
University of Wollongong

Title: Knots and quantum computation

Speaker: Scott Morrison (Australian National University)

Time and Date: 3:30pm, Friday 26 October 2012

Location: Room 15.206

Abstract: I'll begin with the Jones polynomial, a knot invariant discovered 30 years ago that radically changed our view of topology. From there, we'll visit the complexity of evaluating the Jones polynomial, the topological quantum field theories related to the Jones polynomial, and how all these ideas come together to offer an unorthodox model for quantum computation.