



THE UNIVERSITY OF QUEENSLAND

## SPS, Mathematics

### SEMINAR

**Speaker:** Dr Andrew Kricker  
Nanyang Technological University

**Title:** Ramifications of the Kontsevich Integral in  
Algebra and Topology

**Time:** 2:00pm Thursday, 6/11/08

**Venue:** Priestley #67-141

**Abstract:**

The "Wheeling Isomorphism" is a combinatorial strengthening of a Lie theoretic result from the 1970's known as the Duflo isomorphism. Wheeling arose in the study of quantum topological invariants and, in particular, is intimately connected with a knot invariant known as the Kontsevich integral. My plan is to introduce all these ingredients, and sketch out how they relate to each other. Recently the author gave the first completely combinatorial proof of Wheeling, and my goal is to provide some background and motivation for that work.