1047-05-341 **S. Ole Warnaar*** (o.warnaar@maths.uq.edu.au), Mathematics, The University of Queensland, Brisbane, Australia. *The sl_3 Selberg integral.*

In 2000 Mukhin and Varchenko conjectured the existence of a Selberg integral for each simple Lie algebra g provided certain representation theoretic spaces are one-dimensional. In this talk I will discuss an approach based on Macdonald polynomials to tackle the conjecture. I will mainly focus on the simplest non-trivial case, and present an explicit Selberg integral evaluation for $g = sl_3$. (Received February 02, 2009)