

# Algebra & Number Theory Seminar

Wednesday, March 24, 2010

3:30 pm in Hume 331

Dr. Stephan Baier

Department of Mathematics, University of Bristol

## Subconvexity bounds for L-functions

### ABSTRACT

The convexity bound for an L-function is a specific estimate for its growth on the critical line that can be obtained by using its functional equation and the Phragmen-Lindelof principle from complex analysis. It is generally of great interest and often a challenging problem to improve this convexity bound. In this talk, I will give a survey of subconvexity bounds in the t-aspect. Towards the end, I will report about recent work with L. Zhao on subconvexity for  $GL(3)$  automorphic L-functions.