

Speaker: Nik Weaver

Title: The Kadison-Singer problem as a combinatorial problem

Abstract: The Kadison-Singer problem is one of the great outstanding problems in C^* -algebra, with applications to a surprising number of different subjects. Building on work of Akemann and Anderson, we reduce the problem to a purely combinatorial question about efficiently partitioning finite sets of vectors in a finite dimensional vector space. This problem may now be tractable, if only one had the right combinatorial tools.