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Improving bounds in Weaver and Feichtinger conjectures

Abstract

In this talk we present some results related to the recent solution of the Kadison-Singer problem by Marcus, Spielman, and Srivastava. We sharpen the constant in the KS2 conjecture of Weaver that plays a key role in this solution. We then apply this result to prove optimal asymptotic bounds on the size of partitions in the Feichtinger conjecture.

The talk is based on a joint work with Casazza, Marcus, and Speegle.

Talk time: 2016-07-19 2:30PM — 2016-07-19 2:50PM
Talk location: Crow 204