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## Improved 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  $KS_2$  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

Special Session: Applied harmonic analysis, frame theory, and operator theory. Organized by G. Kutyniok.