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Marcin Bownik*, Department of Mathematics, University of Oregon, Eugene, OR 97403, and
Pete Casazza, Adam Marcus and **Darrin Speegle**. *Improved bounds in Weaver and Feichtinger Conjectures.*

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. (Received January 12, 2016)