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The Discretization Problem for continuous frames.

Abstract

There is a long history of creating frames by sampling continuous frames. For instance, Gabor frames are formed by sampling the short time Fourier transform at a lattice. Continuous frames often arise naturally in mathematics and physics, but the sampled frames are usually more useful in application. Using the results of Marcus-Spielman-Srivastava in their solution of the Kadison-Singer problem, we prove that every bounded continuous frame may be sampled to obtain a frame.

This is joint work with Darrin Speegle.

Talk time: 2016-07-18 4:00PM— 2016-07-18 4:20PM
Talk location: Crow 204

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