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Daniel Freeman* (freeman@math.utexas.edu), **Ryan Hotovy**, **Eileen Martin**, **Daniel Poore**, **A. Rebecca Wei** and **Madeline Wyse**. *Redundant frames for vector bundles*. Preliminary report.

Frames can be thought of as redundant or linearly dependent bases for Hilbert spaces, and have important applications in such areas as signal processing, data compression, and sampling theory. Apart from applications, substantial research has been devoted to understanding the theory and geometry of frames as well. We will discuss both some theorems and obstacles related to extending the theory of frames for Hilbert spaces to the continuous setting of vector bundles. (Received September 12, 2010)