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Akram Aldroubi* (akram.aldroubi@vanderbilt.edu). *Interaction of dynamical sampling, functional analysis and operator theory.*

Dynamical sampling is the problem of recovering an unknown function from a set of space-time samples. This problem has many connections to problems in frame theory, operator theory and functional analysis. In this talk, we will state the problem and discuss its relations to various areas of functional analysis and operator theory, and we will give a brief review of previous results and present several new ones. (Received July 22, 2017)