Colloquium

Joseph Lakey

New Mexico State University

Friday, February 18, 2011 at 3pm in Bell Hall 143

An overview of Time- and Multi-Bandlimiting

Part of this talk will address a classical problem in signal analysis: which bandlimited signals can be approximated well, over a fixed time interval, by interpolating a finite number of samples? To put this problem in context we will review Shannon sampling theory and the "Bell Labs" theory of time- and bandlimiting. Recent progress on extensions of this theory to multiband signals will also be discussed.