

1086-94-2970

Joseph D Lakey* (jlakey@nmsu.edu), Department of Mathematical Sciences, New Mexico State University, Las Cruces, NM 88003-8001, and **Jeffrey A Hogan** (jeff.hogan@newcastle.edu.au), School of Mathematics and Physical Sciences, University of Newcastle, Callaghan, NSW 2308, Australia. *Recent Progress in Duration and Bandwidth Limiting.*

The mathematical theory of time and band limiting was developed in the 1960s by H. Landau, D. Slepian and H.O. Pollak in a series of papers in the Bell System Technical Journal. Recent progress since 2000 deals largely with numerical issues and approximations of functions that are essentially limited to a time interval and a union of frequency intervals. This talk will address these matters, and connections to sampling of multiband signals. (Received September 26, 2012)