# Abstracts

## VCO Based Chirp Generation for Broad Bandwidth Compressive Receiver Applications

*J.S. Levy, P.J. Burke, L.D. Cohen and R. Cecchini. "VCO Based Chirp Generation for Broad Bandwidth Compressive Receiver Applications." 1993 MTT-S International Microwave Symposium Digest 93.2 (1993 Vol. II [MWSYM]): 1113-1116.*

This paper discusses an advance in state-of-the-art broadband chirp generation for compressive receiver applications. Linear chirp of 1-GHz bandwidth and I-µsec duration were generated with an ultralinear, millimeter wave, Gunn VCO and sawtooth waveform driver. The chirp generation circuit was developed for use as a swept local oscillator for a 500-MHz instantaneous bandwidth compressive receiver. Compressive receiver performance with this SLO approach demonstrates a >10 dB improvement in receiver noise floor relative to that obtained with a conventional impulse based SLO.

❑ Return to main document.