

# Abstracts

## New carrier generation approach for fiber-radio systems to overcome chromatic dispersion problems

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*A. Hilt, A. Vilcot, T. Berceli, T. Marozsak and B. Cabon. "New carrier generation approach for fiber-radio systems to overcome chromatic dispersion problems." 1998 MTT-S International Microwave Symposium Digest 98.3 (1998 Vol. III [MWSYM]): 1525-1528.*

A new approach for the generation of millimeter wave (MMW) carriers in fiber-radio systems is presented. A subharmonic of the carrier is transmitted to the radio nodes over the fiber-optic network. At each base station the MMW carriers are generated by a phase locked oscillator (PLO) using harmonic mixing technique. Due to the subharmonic reference transmission, chromatic dispersion in the optical path is avoided. Further advantage is the inherent possibility of channel selection to avoid radio interference between adjacent transmitters.

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