

Abstracts

Full-duplex broadband fiber-wireless system incorporating baseband data transmission and a novel dispersion tolerant modulation scheme

C. Lim, A. Nirmalathas, D. Novak, R. Waterhouse and K. Ghorbani. "Full-duplex broadband fiber-wireless system incorporating baseband data transmission and a novel dispersion tolerant modulation scheme." 1999 MTT-S International Microwave Symposium Digest 99.3 (1999 Vol. III [MWSYM]): 1201-1204 vol.3.

We present the first demonstration of a broadband millimeter-wave fiber-wireless system incorporating baseband data transmission in both the downstream (622 Mb/s) and upstream (155 Mb/s). The local oscillator (LO) required at the base-station for up- and downconversion to/from the MM-wave wireless frequency is delivered remotely via a modulation scheme that is tolerant to the effects of fiber dispersion on the LO carrier power.

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