# Abstracts

## Photodetection, photonic feeding coplanar patch antenna and transmitting experiment for radio-on-fiber system

*K. Li and H. Izutsu. "Photodetection, photonic feeding coplanar patch antenna and transmitting experiment for radio-on-fiber system." 2001 MTT-S International Microwave Symposium Digest 01.1 (2001 Vol. I [MWSYM]): 73-76 vol.1.*

We present an experiment on optical modulation, photodetection, photonic feeding and RF transmitting radiation system. The experiment showed an RF power of more than 10 dBm at both 10 GHz and 20 GHz from a photodetector (PD). A coplanar patch antenna has been used as radiating antenna, which has a CPW fed line and then easy to connect with the PD and has been designed based on a concept of coplanar patch. The transmitting experiment demonstrated the effectiveness of the direct photonic feeding antenna and its potential application to real radio-on-fiber system.

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