



KOLLOQUIUM

Elektrotechnik-Elektronik-Informationstechnik

Multichannel and rate all-optical clock recovery

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We report on a new clock recovery scheme utilizing a birefringent fiber resonator and a polarizer that allows for parallel all-optical processing of multiple channels and rates. It is demonstrated for 21 simultaneous channels, 20 carrying data at 10 Gb/s and one at 40 Gb/s. Earlier demonstrations of multichannel operation have reported four recovered channels at only one single rate.