All-optical phase-preserving amplitude regeneration of a 640 Gbit/s RZ-DPSK signal

Phase-preserving amplitude regeneration based on optical parametric amplification has been experimentally demonstrated for a 640 Gbit/s RZ-DPSK signal. Improvement of 2.2 dB in receiver sensitivity at a BER of 10^{-9} together with 13.3 dB net gain have been successfully achieved.

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