Multi-Channel Phase Regenerator Based on Polarization-Assisted Phase-Sensitive Amplification

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Available files in excel

Data1.xlx

Sheet 1: Optical Comb, Fig3

This file contains an example of initial comb sepctrum.

Sheet 2: Signals Input spectrum, Fig3

This file contains an example of spectral traces before the HNLF for one direction of the fiber.

Sheet 3: Input and Output HNLF spectra, Fig.4

This file contains an example of spectral traces before the HNLF for one direction of the fiber.

Sheet 4: EVM, AM, PE, Fig.5

This file contains error vector magnitude (EVM), amplitude magnitude (AM) and phase error (PE) for all the signals with and without added noise before\after the regenerator in multi-channel operation.

Copy of Copy%20of%20OSNR-for-ber-10e-3-and-BERs-1.xlsx

Sheet 1: osnr required for ber 10e-3, Fig.5

This file contains the OSNRs for BER of 10-3 versus signal carrier frequency before/after the regenerator in single and multi-channel operation.

Sheet 2: b2b ch25 no noise, Fig.5

This file contains the BER curve and the corresponding fitting for the input signal, the back to back, when no noise was added to the signal (presented for signal 192.5 THz).

Sheet 3: b2b ch25 47mA noise, Fig.5

This file contains the BER curve and the corresponding fitting for the input signal, when some noise was added to the signal (presented for signal 192.5 THz).

Sheet 4: Single channel 25 after reg 47m, Fig.5

This file contains the BER curve and the corresponding fitting for the regenerated signal, when some noise was added to the signal in single channel operation (presented for signal 192.5 THz).

Sheet 5: Ch25-after-reg-no-noise

This file contains the BER curve and the corresponding fitting for the regenerated signal, when no noise was added to the signal in single channel operation (presented for signal 192.5 THz).

Sheet 6: Ch25-after-reg-47mA

This file contains the BER curve and the corresponding fitting for the regenerated signal, when some noise was added to the signal in multi channel operation (presented for signal 192.5 THz).

If you would like the data in another form please contact frp@orc.soton.ac.uk.