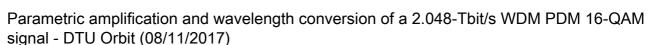
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## Parametric amplification and wavelength conversion of a 2.048-Tbit/s WDM PDM 16-QAM signal

We demonstrate polarisation-insensitive parametric amplification in highly nonlinear fibre of a 2.048-Tbit/s dense WDM PDM 16-QAM signal with ~10 dB on-off gain and simultaneous wavelength conversion and phase conjugation, with mean Q2 penalties of only 0.6 dB and 0.4 dB.

## **General information**

State: Published

Organisations: Department of Photonics Engineering, High-Speed Optical Communication, Bell Laboratories Authors: Hu, H. (Intern), Jopson, R. M. (Ekstern), Gnauck, A. H. (Ekstern), Dinu, M. (Ekstern), Chandrasekhar, S. (Ekstern), Liu, X. (Ekstern), Xie, C. (Ekstern), Montoliu, M. (Ekstern), Randel, S. (Ekstern), McKinstrie, C. J. (Ekstern)

Number of pages: 3 Publication date: 2014

## Host publication information

Title of host publication: Proceedings of 2014 European Conference on Optical Communication

Publisher: IEEE

ISBN (Print): 9782954944401

Series: European Conference on Optical Communication, Ecoc

Main Research Area: Technical/natural sciences

Conference: European Conference on Optical Communication (ECOC 2014), Cannes, France, 21/09/2014 - 21/09/2014 Electrical and Electronic Engineering, Electronic, Optical and Magnetic Materials, Dense wavelength division multiplexing, Optical communication, Quadrature amplitude modulation, 16-QAM signals, Highly non-linear fibres, On-off gain,

Parametric amplification, Optical parametric amplifiers

DOIs:

10.1109/ecoc.2014.6964196

Source: FindIt

Source-ID: 2288424176

Publication: Research - peer-review > Article in proceedings - Annual report year: 2015