

Ultra-Fast Low Energy Switching Using an InP Photonic Crystal H0 Nanocavity - DTU Orbit (09/11/2017)

Ultra-Fast Low Energy Switching Using an InP Photonic Crystal H0 Nanocavity

Pump-probe measurements on InP photonic crystal H0 nanocavities show large-contrast ultrafast switching at low pulse energy. For large pulse energies, high-frequency carrier density oscillations are induced, leading to pulsesplitting.

General information

State: Published

Organisations: Department of Photonics Engineering, Nanophotonics Theory and Signal Processing, Nanophotonic

Devices, High-Speed Optical Communication

Authors: Yu, Y. (Intern), Palushani, E. (Intern), Heuck, M. (Intern), Ek, S. (Intern), Kuznetsova, N. (Intern), Colman, P. (Intern), Vukovic, D. (Intern), Peucheret, C. (Intern), Oxenløwe, L. K. (Intern), Yvind, K. (Intern), Mørk, J. (Intern)

Number of pages: 2 Pages: MI1-5

Publication date: 2013

Host publication information

Title of host publication: 2013 Conference on Lasers and Electro-Optics Pacific Rim (CLEO-PR)

Publisher: IEEE

ISBN (Print): 978-1-4673-6476-8

Main Research Area: Technical/natural sciences

Conference: 2013 Conference on Lasers and Electro-Optics Pacific Rim, Kyoto, Japan, 30/06/2013 - 30/06/2013

DOIs:

10.1109/CLEOPR.2013.6599952

Source: dtu

Source-ID: n::oai:DTIC-ART:iel/392313890::32084

Publication: Research - peer-review > Article in proceedings - Annual report year: 2013