

Fully integrated SDM amplifiers

Yongmin Jung

University of Southampton

Email: ymj@orc.soton.ac.uk

Abstract: Space division multiplexing (SDM) is one of the promising approaches to further increase the transmission capacity of optical fiber and reducing the cost per bit in future communication networks. In this talk, the recent progresses on the SDM amplifiers and SDM components will be reviewed and improved sharing of the optical components and device integration will be discussed. Especially, a fully integrated 32-core multicore fiber (MCF) amplifier and a 32-core MCF optical isolator will be presented in detail.