Towards atoms in a fibre

Modulating, multiplexing and memorising photons for quantum networks and computing



C. D. McGarry, W. O. C. Davis, G. Booton, T. Wasawo, K. Harrington,

K. R. Rusimova, T.A. Birks, J. Nunn, P.J. Mosley Centre for Photonics and Photonic Materials, University of Bath, Claverton Down, Bath, BA2 7AY; cdm34@bath.ac.uk



We demonstrate all optical phase modulation mediated by a twophoton transition in warm atomic vapour, alongside a fibreintegrated vapour cell with low-loss interconnects.

