



Project: FP7-22457 PHASORS

PHase sensitive Amplifier Systems and Optical Regenerator and their applications

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Publications List 2009

PHASORS project publications 2009

"Polarization maintaining highly nonlinear fibers and their applications' Lars Gruner-Nielsen. IEEE LEOS Winter Topical Meetings, Innsbruck, Jan 12 -14 2009

"High resolution optical waveform sampling," P.A. Andrekson IEEE Winter Topical Meeting, paper MC2.2, Innsbruck, Austria, January 2009 (invited paper).

"BER estimation of a long-haul transmission system with phase sensitive amplifiers", Andonis Bogris, Thomas Kamalakis, Dimitris Syvridis, Thomas Sphicopoulos. IEEE LEOS Winter Topical Meetings, Innsbruck, Jan 12-14 2009

"-40 °C < T < 95 °C mode-hop-free operation of uncooled AlGaInAs-MQW discrete-mode laser diode with emission at $\lambda = 1.3 \mu\text{m}$ " R. Phelan, B. Kelly, J. O'Carroll, C. Herbert, A. Duke and J. O'Gorman ELECTRONICS LETTERS 1st January 2009 Vol. 45 No. 1

"Highly nonlinear non-silica glass microstructured optical fibers with near-zero dispersion slope for 1.55 micron applications", X.Feng, A.Camerlingo, F.Poletti, P.Petropoulos, K.E.Frampton, N.M.White, C.J.Oton, W.H.Loh, D.J.Richardson *CLEO/Europe-EQEC 2009* Munich 14-19 Jun 2009 CE3.4

"All-optical waveform sampling," P.A. Andrekson, 19th International Congress on Photonics in Europe, Munich, Germany, June 14-19, 2009, paper CI4.5 (invited paper).

"Recent advances in highly nonlinear microstructured optical fibres", F.Poletti, X.Feng, A.Camerlingo, M.N.Petrovich, P.Horak, F.Parmigiani, P.Petropoulos, W.H.Loh, D.J.Richardson *OECC 2009* Hong Kong 12-17 Jul 2009 (Invited)

"All-optical waveform sampling in high-speed optical communication systems using advanced modulation formats", M. Sköld, M. Westlund, H. Sunnerud, and P.A. Andrekson, *JLT*, vol.27, no. 16, Aug 2009.

"All-optical sampling techniques for high-fidelity capture of optical waveforms," P.A. Andrekson, 4th International Symposium on Ultrafast Photonic Technologies, Sendai, Japan, August 4-5, 2009 (invited paper).

"Phase sensitive amplification based on cascaded SHG/DFG process in a periodically poled lithium niobate waveguide", F.Parmigiani, K.J.Lee, S.Liu, J.Kakande, P.Petropoulos, K.Gallo, D.J.Richardson, Institute of Physics Meeting London 21 Sep 2009.

"Phase sensitive amplification based on quadratic cascading in a periodically poled lithium niobate waveguide", K.J.Lee, F.Parmigiani, S.Liu, J.Kakande, P.Petropoulos, K.Gallo, D.J.Richardson, *Optics Express* 2009 Vol.17(22) pp.20393-20400.

"Multi-wavelength all-optical regeneration techniques", F.Parmigiani, L.Provost, P.Petropoulos, D.J.Richardson, IEEE/LEOS Summer Topicals 2009 Newport Beach 20-22 Jul 2009 (Invited).

"A solid one-dimensional microstructured optical fibre with high nonlinearity and low dispersion at 1.55 microns", X.Feng, A.Camerlingo, F.Poletti, P.Petropoulos, F.Parmigiani, P.Horak, W.H.Loh, D.J.Richardson *CLEO Pacific Rim 2009* Shanghai 30 Aug-3 Sep 2009 TuP5.

"Experimental Comparison of Gain and Saturation Characteristics of a Parametric Amplifier in Phase-sensitive and Phase-insensitive Mode," C.Lundström, J.Kakande, P.Andrekson, Z.Tong, M.Karlsson, P.Petropoulos, F.Parmigiani, D.J. Richardson *ECOC 2009*.

"Four-wave-mixing based wavelength conversion in a short length of a solid 1D microstructured fibre", A.Camerlingo, F.Parmigiani, X.Feng, F.Poletti, P.Horak, W.H.Loh, D.J.Richardson, P.Petropoulos *ECOC 2009* Vienna 21-23 Sep 2009.

“Measurement of Sub-1dB Noise Figure in a Non-Degenerate Cascaded Phase-Sensitive Fibre Parametric Amplifier,” Z. Tong, C.Lundström, A. Bogris, M.Karlsson, P.Andrekson, D.Syvridis. ECOC 2009.

“High resolution optical sampling”, H. Sunnerud, IEEE Photonics Society annual meeting, Belek, Turkey, Oct 2009 (invited paper).

“Dispersion-shifted all-solid high index-contrast microstructured optical fiber for nonlinear applications at 1.55 μm ”, X.Feng, F.Poletti, A.Camerlingo, F.Parmigiani, P.Horak, P.Petropoulos, W.H.Loh, D.J.Richardson, Optics Express 2009 Vol.17(22) pp.20249.

“Acoustic Index of Ge-doped Optical Fibers”, S. Herstrøm, L. Grüner-Nielsen, and B. Palsdottir, Optics Letters, Vol. 34, No.23 , pp. 3689-3691, 2009