

# Lake Como School on spatiotemporal complexity in nonlinear optics

Centro Alessandro Volta, Villa del Grumello, Como, August 31- September 4, 2015

## Final Programme

### Monday, August 31<sup>st</sup>

- 9:30-10:00 G. Millot, S. Trillo & S. Wabnitz: Welcome and introduction
- 10:00-11:00 S. COEN, University of Auckland, New Zealand: **Cavities/supercontinuum III**
- 11:00-11:30 Coffeee break
- 11:30-12:30 Ph. RUSSELL, Max Planck Institute, Erlangen, Germany: **Complex wave mixing in optical fibers I**
- 12:30-14:00 Lunch
- 14:00-15:00 SOTIRIS DROULIAS, FORTH-IESL, Heraklion, Greece: **Photonic crystal lasers and loss compensation in metamaterials**
- 15:00-16:00 D. CHURKIN, Aston University, Aston, UK: **Periodicity and localised light structure in intensity spatio-temporal dynamics of fibre lasers**
- 16:00-16:30 Coffeee break
- 16:30-18:00 POSTER SESSION I

### Tuesday, September 1<sup>st</sup>

- 9:00-10:00 D. RICHARDSON, ORC, Southampton, U.K.: **Mode division multiplexed optical transmission**
- 10:00-11:00 F. WISE, Cornell University, Ithaca N.Y., U.S.: **Spatiotemporal pulse propagation in multimode fibers I**
- 11:00-11:30 Coffeee break
- 11:30-12:30 C. DE ANGELIS, Brescia University, Italy: **Photonic devices with two dimensional materials**

12:30-14:00 Lunch

14:00-15:00 Ph. RUSSELL, Max Planck Institute, Erlangen, Germany: **Complex wave mixing in optical fibers II**

15:00-16:00 M. ONORATO, Università di Torino, Italy: **Application of wave turbulence theory to the FPU system**

16:00-16:30 Coffeee break

16:30-17:30 D. SKRYABIN, University of Bath, Bath, U.K.: **Polariton solitons**

20:00-23:00 Conference dinner

### Wednesday, September 2<sup>nd</sup>

9:00-10:00 D. RICHARDSON, ORC, Southampton, U.K.: **Optical communication at two microns**

10:00-11:00 S. BARLAND, Institut Non Linéaire de Nice, Valbonne, France: **Temporal localized states in semiconductors (I): from spatially extended to delayed systems**

11:00-11:30 Coffeee break

11:30-12:30 S. COEN, University of Auckland, New Zealand: **Cavities/supercontinuum II**

12:30-14:00 Lunch

14:00-15:00 M. GIUDICI, Institut Non Linéaire de Nice, Valbonne, France: **Temporal localized states in semiconductors (II): from mode locking to localized pulses**

15:00-16:00 F. WISE, Cornell University, Ithaca N.Y., U.S.: **Spatiotemporal pulse propagation in multimode fibers II**

16:00-16:30 Coffeee break

16:30-18:00 POSTER SESSION II

### Thursday, September 3<sup>rd</sup>

9:00-10:00 A. ACEVES, Southern Methodist University, Dallas, USA: **Multicolor filaments and vortex states I**

10:00-11:00 S. WABNITZ, Università di Brescia, Brescia, Italy: **Complex temporal dynamics in optical cavities**

11:00-11:30 Coffeee break

11:30-12:30 R. MORANDOTTI, INRS, Montreal, Canada: **Photonic circuits for optical signal processing**

12:30-14:00 Lunch

14:00-15:00 S. TRILLO, Università di Ferrara, Ferrara, Italia: **Optical shock waves**

15:00-16:00 S. COEN, University of Auckland, New Zealand: **Cavities/supercontinuum III**

16:00-16:30 Coffeee break

16:30-18:30 Excursion

Friday, September 4<sup>th</sup>

9:00-10:00 G. MILLOT, Université de Bourgogne, Dijon, France: **Dual-comb spectroscopy with frequency-agile lasers**

10:00-11:00 A. ACEVES, Southern Methodist University, Dallas: **Multicolor filaments and vortex states II**

11:00-11:30 Coffeee break

11:30-12:30 R. MORANDOTTI, INRS, Montreal, Canada: **Latest trends in optical signal processing**

12:30-13:00 G. Millot, S. Trillo & S. Wabnitz: Summary and conclusions