

Optical Frequency Combs Workshop Agenda
Room MB653, Wright Lecture Theatre, main building 6th floor
DAY 1: 11th April

9:30-10:00 Welcome Coffee (NW708)
10:00-10:05 Welcome by the organisers
10:05-10:15 Introduction by Prof. S. Turitsyn, AIPT Director

Session 1: Quantum & Unconventional Combs

Chair: Auro Perego

10:15-10:45 Talk 1 **Dr. Lucia Caspani**, University of Strathclyde: "Integrated frequency combs for quantum applications"

10:45-11:15 Coffee Break (NW708)

11:15-11:45 Talk 2 **Prof. Dmitry Skryabin**, University of Bath: "From combs to topology in space and time"

11:45-12:15 Talk 3 **Prof. Alessia Pasquazi**, University of Sussex: "Stability properties of soliton and Turing pattern states in microresonator filtered lasers"

12:15-13:45 Lunch Break (Conference Aston)

Session 2: Laser combs and their applications

Chair: Manuel Crespo-Ballesteros

13:45-14:15 Talk 4 **Prof. Arnaud Mussot**, University of Lille: "All-fiber frequency agile triple-frequency comb light source"

14:15-14:45 Talk 5 **Prof. Zhixin Liu**, UCL: "Cavity-less frequency comb for optical-assisted signal processing"

14:45-15:15 Coffee Break (NW708)

Session 3: Aston combs

Chair: Manuel Crespo-Ballesteros

15:15-16:00 AIPT Research on Combs, (Speakers: M. Sumetsky, A. Perego, S. Sergeyev)

16:00-17:00 Lab Tour

19:00 Speakers Dinner (Pasta di Piazza, B3 1SA)

DAY 2: 12th April
Room MB653, Wright Lecture Theatre, main building 6th floor

Session 4: Combs in macroscopic systems

Chair: Misha Sumetsky

10:00-10:30 Talk 6 **Prof. Derryck Reid**, Heriot-Watt University: "Frequency comb development for the extremely large telescope"

10:30-11:00 Coffee Break (NW708)

Session 5: Combs in microresonators

Chair: Misha Sumetsky

11:00-11:30 Talk 7 **Prof. Victor Torres Company**, Chalmers University: "Low-noise, power-efficient soliton microcombs"

11:30-12:00 Talk 8 **Dr. Wen Zhou**, University of Oxford: "Neuro-inspired photonic computing using microcombs"

12:00-13:00 Lunch (Conference Aston)

13:00-13:30 Talk 9 **Dr. Jonathan Silver**, NPL: "Kerr nonlinear optics with whispering-gallery-mode microresonators"

13:30-14:00 Talk 10 **Dr. Shuangyou Zhang**, Max Planck Institute: "Dispersive Kerr Soliton in a Microresonator via Bichromatic Pumping"

14:00-14:30 Talk 11 **Dr. Sivaraman Subramanian**, University of Exeter: "Optical whispering gallery modes as a platform for single molecule biosensing"

14:30-14:35 Concluding remarks