WEDNESDAY 26TH

8:30 - 9:15  Registration + Coffee

9:15 - 9:45  Introduction by ICONS

9:45 - 10:30  Lukas Novotny - Levitodynamics

10:30 - 10:45  Katsuya Tanaka - Bilayer chiral dielectric metasurfaces

10:45 - 11:00  Samuel Holder - A new route to organic plasmonics: nanoscale light-confinement using J-aggregates

11:00 - 11:15  Jean de Souza Matias - Non linear quantum yield of upconverting nanoparticles

11:15 - 11:45  Break

11:45 - 12:00  David Marco - Two dimensional geometric phase vortex grating based on the optimal triplicator design

12:00 - 12:15  Alexandre Fossati - Coherent optical storage in Rare Earth doped nanoparticles


12:30 - 12:45  Baptiste Vindolet - NV centers as quantum probes for high-pressure magnetic sensing

12:45 - 14:00  Lunch

14:00 - 14:45  Jenny Nelson - Molecular electronic materials for solar energy conversion: understanding structure-function relationships

14:45 - 15:00  Somdatta Bhattacharya - Femtosecond excited state dynamics of a novel zinc phthalocyanine investigated using Transient Absorption Spectroscopy

15:00 - 15:15  Carmen Lago - Optical design: Extended depth of focus intraocular lens and corneal shape influence

15:15 - 15:30  Vittorio Aita - Radial optical derivative via geometric phase
15:30 - 16:00  Break
16:00 - 16:45  Institute talk by Robert Sewell and announcements
16:45 - 17:00  Break
17:00 - 18:00  Moderated round table - Career perspectives after PhD

THURSDAY 27TH

8:30 - 9:15  Registration + Coffee
9:15 - 9:30  Anatolii Makhinia - Fully inkjet-printed organic light-emitting diodes for disposable lab-on-a-chip systems
9:30 - 9:45  Surya Abhishek Singaraju - Inkjet printing of Cu 2 ZnSnS 4 absorber layer for application in thin film photovoltaics and other electronic devices
9:45 - 10:00  Qingxin Meng - 3D printed translation stage
10:00 - 10:45  Eleni Diamanti - Communication in a quantum world
10:45 - 11:15  Break
11:15 - 11:30  Charikleia Troullinou - Towards a high-density squeezed-light magnetometer
11:30 - 11:45  Jayadev Vijayan - Observing quantum magnetism under a microscope
11:45 - 12:00  Filip Sosnicki - Spectro-temporal manipulation of quantum light via optically driven electro-optic time-lensing system
12:00 - 12:15  Ben Slater - Entanglement distribution of photons in silicon quantum photonic devices with multicore fibre
12:15 - 12:45  Picture
12:45 - 14:00  Lunch
14:00 - 19:00  Visits in Barcelona
FRIDAY 28TH

8:30 - 9:15  Registration + Coffee

9:15 - 9:30  Javier Argüello Luengo - Simulating quantum chemistry using cold atoms

9:30 - 9:45  Mateusz Mazelanik - Multidimensional quantum optics of spin waves through ac-Stark modulation

9:45 - 10:00 Álvaro Cuevas - Collision-based evolutions of open quantum systems

10:00 - 10:45 Viola Vogel - Mechanobiology: a forceful player in health and disease

10:45 - 11:15 Break

11:15 - 11:30 Pablo Eugui - Polarization sensitive detection in combination with bright and dark field OCT for tissue scattering characterization

11:30 - 11:45 Peter A. Pellionisz - Standardization of Relative Lifetime Imaging System

11:45 - 12:00 Andrew Thrapp - Automated motion compensation in structured illumination endomicroscopy

12:00 - 12:15 Liuba Dvinskikh - Development and application of a flexible light sheet fluorescence microscope for high speed 2D and 3D imaging of calcium dynamics in cardiomyocytes
FRIDAY 28TH

12:15 - 12:30  Nicolás Mateos - High density single particle tracking reveals nano- and meso-scale dynamic organization of plasma membrane receptors in living cells

12:30 - 14:00  Lunch

14:00 - 14:15  Sarah Keary - Super-resolution microscopy reveals nano-hubs of spatially segregated proteins within focal adhesions

14:15 - 14:30  Sara Aissati - Testing the effect of ocular aberrations on perceived transverse chromatic aberration

14:30 - 14:45  Kristýna Holanová - Revealing 3D μs-time interactions of ASE-1 and its domains with a microtubule to understand its function

14:45 - 15:30  Lab Tours & Panel discussion: How to organise an IONS conference

15:30 - 16:00  Break

16:00 - 16:15  Danny Krautz - Carl Zeiss AG

16:00 - 18:30  Poster session

18:30 - 19:30  Closing ceremony & prizes
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