

Sunday, 21 June 2026

12:00 - 18:00	Registration Atrium Pavillon Alexandre-Vachon
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13:00 - 14:00	Tutorial 1 - Ingo Dierking Pavillon Adrien Pouliot - PLT-2501
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	Characterizing Liquid Crystal Phases via Textures and Machine Learning <u>Ingo Dierking</u> ¹ ¹ University of Manchester <u>413</u>
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14:15 - 15:15	Tutorial 2 - Malgosia Kaczmarek Pavillon Adrien Pouliot - PLT-2501
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	Harvesting Light to Control Light for Smart Liquid Crystal Systems <u>Malgosia Kaczmarek</u> ¹ ¹ University of Southampton <u>437</u>
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15:30 - 17:00	Tutorial 3 - Xabier Quintana Arregui Pavillon Adrien Pouliot - PLT-2501
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	Manufacturing Liquid Crystal Devices in a Research Laboratory <u>Xabier Quintana Arregui</u> ¹ ¹ Universidad Politécnica de Madrid <u>23</u>
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18:00 - 20:00	Welcome Reception Atrium Pavillon Alexandre-Vachon
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09:00 - 10:00	Plenary Keynote - Jan Lagerwall Pavillon Adrien-Pouliot - PLT-1112	
	Making liquid crystals—the coolest state of matter—as hot as they deserve Jan Lagerwall ¹ ¹ University of Luxembourg	576
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10:30 - 11:00	Bio-inspired Reconfigurable Matter by Swimmers in Nematic Liquid Crystals Kathleen Stebe ¹ ¹ University of Pennsylvania	385
11:00 - 11:15	Humidity-Responsive Motion by Films Produced from Photonic Lignin-Cellulose Phases Franciso Sousa ¹ ¹ NOVA School of Science and Technology	71
11:15 - 11:30	Thermotropic liquid crystals: an intelligent strategy for skin drug delivery Mariia Nesterkina ¹ ¹ Helmholtz Institute for Pharmaceutical Research Saarland	302
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11:45 - 12:15	Mussels use smectic liquid crystal phases to fabricate tough and self-healing protein fibers Matthew Harrington ¹ ¹ McGill University	220
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11:00 - 11:15	Reconfigurable Liquid Crystals of Plasmonic Nanorods Nika Kutalia ¹ ¹ Laboratoire de Physique des Solides, Université Paris Saclay, CNRS, Orsay, 91405, France	110

	11:15 - 11:30	Chiral Liquid Crystal-Driven Co-Assembly of Binary Nanoparticle Architectures Michał Wójcik ¹ ¹ University of Warsaw	<u>337</u>
	11:30 - 11:45	More than a template; cellulose as reducing agent for chiroptical composites Emre Aydemir ^{1, 2} ¹ The University of Manchester, Manchester, UK, ² Henry Royce Institute, Manchester, UK	<u>152</u>
	11:45 - 12:00	Structure of assemblies of Nanospheres confined in Smectic Liquid Crystal defects Muyan ZHOU ¹ ¹ Sorbonne Université, CNRS, Institut des Nano-Sciences de Paris	<u>434</u>
10:30 - 12:30		E - Mathematical Modelling, Symmetry and Topology Pavillon Adrien Pouliot - PLT-2751	
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Eminence, Gautam Buddha Nagar, Greater Noida, India

11:45 - 12:00 **real-time detection of airborne pesticides using liquid-crystal anchoring transitions** [Nour RAZI](#)¹ ¹Cergy CY Paris université [210](#)

12:00 - 12:15 **Modulation of Physical Properties of Stimuli-Responsive Liquid Crystals for Optoelectronic and Sensing Applications** [Rajiv Manohar](#)¹ ¹Liquid Crystals Research Laboratory, University of Lucknow, Lucknow, Uttar Pradesh, India [237](#)

12:30 - 13:30 **Lunch**
Atrium Pavillon Alexandre-Vachon

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Pavillon Adrien Pouliot - PLT-2551

13:30 - 14:00 **Steering Cell Behavior with Liquid Crystalline based Scaffolds** [Camilla Parmeggiani](#)^{1,2} ¹Department of Chemistry, University of Florence, ²European Laboratory for Non Linear Spectroscopy [278](#)

14:00 - 14:15 **Active Nematic Liquid Crystals as a Blueprint to Understand Glioblastoma Brain Tumors** [Pedro Lowenstein](#)¹ ¹University of Michigan, USA [431](#)

14:15 - 14:30 **Anisotropic Cellulose Liquid Crystal Systems for Coupled Hygroscopic Actuation for Water Collection** [Ana P. C. Almeida](#)¹ ¹NOVA School of Science and Technology [72](#)

14:30 - 14:45 **Screening critical issues in the aquaculture sector using liquid crystal sensors** [Pedro de Almeida](#)^{1,2} ¹UnIRE/ISEL, Mechanical Engineering Depart., ISEL, Polytechnic University of Lisbon, Lisbon, Portugal, ²I3N - CENIMAT, School of Sciences and Technology, NOVA University of Lisbon, Lisbon, Portugal [73](#)

14:45 - 15:00 **From Chirality to Helicity in Biological Liquid Crystals** [Eric Grelet](#)¹ ¹CNRS & Université de Bordeaux, France [84](#)

13:30 - 15:30 **C - Liquid Crystals at Interfaces**
Pavillon Adrien Pouliot - PLT-2700

13:30 - 14:00 **Structural colors from modulated topological defects in molecular smectic liquid crystals** [Patrick Davidson](#)¹ ¹Laboratoire de Physique des Solides, Université Paris Saclay, CNRS, Orsay, France [133](#)

14:00 - 14:15 **Size-Dependent Lattice Expansion and Photonic Bandgap Tuning in Blue Phase Liquid Crystals Induced by Gold Nanoparticles** [Xintao Zheng](#)¹ ¹Institut des Nanosciences de Paris, CNRS, Sorbonne Université, France [410](#)

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[William Boissonneault](#)¹ ¹Patqer Photonique inc.

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Coffee break

Atrium Pavillon Alexandre-Vachon

16:00 - 17:15

B - Macromolecular Liquid Crystals

Pavillon Adrien Pouliot - PLT-2551

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Multifunctional Mechanical Metamaterials [Aidan Street](#)¹ ¹University of Leeds

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C - Liquid Crystals at Interfaces

Pavillon Adrien Pouliot - PLT-2700

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[Torsten Hegmann](#)¹ ¹Kent State University

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[Mauricio Morel](#)¹ ¹Universidad de Atacama

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Pavillon Adrien Pouliot - PLT-2501

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[M Blanca Ros](#)¹ ¹University of Zaragoza

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¹University of Leeds

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F - Novel Applications

Pavillon Adrien Pouliot - PLT-2751

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¹Unviersity of Masschusetts Boston

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¹Tokyo Univeristy of Science

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¹Institut des Sciences Chimiques de Rennes

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Poster session 1

Atrium Pavillon Alexandre-Vachon

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¹Yerevan State University

Polarization properties of a cell of nematic liquid crystal with planar and cycloidal orientational boundary conditions [Rafik Hakobyan](#)¹ ¹Yerevan State University [22](#)

Effect of QDs-SiO₂ doped nanoparticles on the electro-optical properties of polymer dispersed liquid crystals film for smart windows. [Vershika Singh](#)¹ ¹Sharda University [30](#)

Nanoscale 3D-Printing of Liquid Crystal Alignment Layers for Tunable Photonic Devices [Monika Halendy](#)¹ ¹Warsaw University of Technology [31](#)

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¹ Laboratoire Charles Coulomb (L2C), Université de Montpellier, CNRS, Montpellier, France	
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¹ Université de Picardie Jules Verne, ² PSC - Physique des Systèmes Complexes	
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¹ Graduate student	
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¹ National Taiwan University	

Tuesday, 23 June 2026

08:00 - 18:00	Registration	
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Synthesis, Self-assembly and Photophysical Properties [Franziska Müller](#)¹

¹Institut für Organische Chemie, Universität Stuttgart, Pfaffenwaldring 55, D-70569 Stuttgart, Germany,

11:30 - 11:45 **Flipping the Helix using a Macrocyclic Photoswitchable Hydrazone** [Jerry Jose](#)¹ ¹Dartmouth college [244](#)

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10:30 - 12:30 **E - Mathematical Modelling, Symmetry and Topology**
Pavillon Adrien Pouliot - PLT-2751

10:30 - 10:45 **Nonlinear twisting power of the chiral dopant in nematic liquid crystals** [David Lu](#)¹ ¹Department of Chemistry, National Taiwan University [300](#)

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11:00 - 11:15 **Topological and time-crystalline order in chiral nematic liquid crystals** [Hangqing Zhao](#)¹ ¹University of Colorado Boulder [341](#)

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10:30 - 12:30 **F - Novel Applications**
Pavillon Adrien Pouliot - PLT-2700

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LCEs [Patrick Thomas](#)¹ ¹University of Cambridge

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¹Université de Montréal

16:00 - 17:15 **C - Liquid Crystals at Interfaces**
Pavillon Adrien Pouliot - PLT-2751

16:00 - 16:30 **Hierarchical Chirality and Emissive Response in Lyotropic Cellulose Nanocrystal Systems** [Susete Fernandes](#)¹ ¹i3N|CENIMAT, Department of Materials Science, NOVA School of Science and Technology, NOVA University Lisbon, Campus de Caparica, Caparica, Portugal 310

16:30 - 16:45 **Optical Tweezer Microrheology of Lyotropic Chromonic Liquid Crystals** [Beatrice Lunsford-Poe](#)¹ ¹University of Massachusetts Amherst 403

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Pavillon Adrien Pouliot - PLT-2501

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16:30 - 16:45 **A pathway from mesophases to functional materials: Programming soft matter through bent-core molecules** [Aleksandra Mašulović](#)¹ ¹Instituto de Nanociencia y Materiales de Aragón, CSIC-Universidad de Zaragoza, Spain 49

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Pavillon Adrien Pouliot - PLT-2551

16:00 - 16:15 **Light exerted forces and torques on liquid crystals** [Peter Palfy-Muhoray](#)¹ ¹Kent State University 261

16:15 - 16:30 **Orientational dynamics and control of topological defects
in 2D nematics** [Petur Bryde](#)¹ ¹Massachusetts Institute of Technology

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09:00 - 10:00 **Plenary - Dong Ki Yoon**
Pavillon Adrien-Pouliot - PLT-1112

Microchiral pinwheel arrays based on achiral molecules [Dong Ki Yoon](#)¹ [12](#)
¹KAIST

10:00 - 10:30 **Coffee break**
Atrium Pavillon Alexandre-Vachon

10:30 - 13:10 **Prizes and Honours**
Pavillon Adrien-Pouliot - PLT-1112

13:10 - 13:40 **ILCS General Meeting**
Pavillon Adrien-Pouliot - PLT-1112

14:00 - 17:00 **Free time**

18:30 - 22:00 **Conference Dinner**
LA SCALA

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Pavillon Adrien Pouliot - PLT-2751

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in Nematics [Muhammed Rasi MALACKOTH](#)¹ ¹University of Bordeaux, CNRS, Laboratoire Ondes et Matière d'Aquitaine (LOMA)

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Piezoelectric Responses in Fluid Ferroelectrics [Marcell Máthé Tibor](#)¹
¹HUN-REN Wigner Research Centre for Physics

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Elastomers [Hillel Aharoni](#)¹ ¹Weizmann Institute of Science

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[Skačej](#)¹ ¹Faculty of Mathematics and Physics, University of Ljubljana, Slovenia

14:30 - 14:45 **Biaxial Gay-Berne Liquid Crystal Elastomer** [Gregor Skačej](#)¹ [373](#)

¹Faculty of Mathematics and Physics, University of Ljubljana, Slovenia

13:30 - 15:00

F - Novel Applications

Pavillon Adrien Pouliot - PLT-2501

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[Aleksandra Gridyakina](#)¹, [Adrianna Nieradka](#)¹, [Urszula Chodorow](#)², [Agnieszka Siemion](#)¹, [Bartłomiej Jankiewicz](#)², [Tomasz R. Wolinski](#)¹ ¹Warsaw University of Technology, ²Military University of Technology

14:00 - 14:15 **Low Dichroism in Hydrogen-Bonded Liquid Crystals over** [130](#)

Broadband THz Range [Ryota Ito](#)¹ ¹Akita Prefectural University

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Liquid Crystals [Kristiaan Neyts](#)¹ ¹State Key Laboratory of Displays and Optoelectronics, Hong Kong University of Science and Technology, Hong Kong

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Applying an Electric Field in Conjunction with a Pulsed Magnetic Field
[Toshiaki Nose](#)¹ ¹Akita Pref. Univ.

15:00 - 15:30

Coffee break

Atrium Pavillon Alexandre-Vachon

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Pavillon Adrien Pouliot - PLT-2751

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¹Department of Photonics, National Cheng Kung University, Tainan 701, Taiwan

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Awardee [Grant Strachan](#)¹ ¹University of Warsaw

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F - Novel Applications

Pavillon Adrien Pouliot - PLT-2551

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¹Florida Institute for Human and Machine Cognition (IHMC) @ AFRL

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¹Department of Physics, National Chung Hsing University

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¹PhotonicsAI Lab, Center for Optics and Photonics, Institute of Physics, Yerevan State University

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[Philip Bos](#)¹ ¹Kent State Univeristy

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Atrium Pavillon Alexandre-Vachon

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¹Department of Sensor and Display Engineering, Kyungpook National University

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¹Nihon University

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¹Department of Energy Science, Sungkyunkwan University, Suwon, Gyeonggi-do 16419, Republic of Korea

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¹ Graduate School of Science and Engineering, Chuo University	
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¹ Graduate School of Science and Engineering, Chuo University	
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¹ Department of Physics, Engineering Physics and Optics, Université Laval, Canada	
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¹ Kyungpook National University	
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¹ Department of Chemistry, The University of Osaka, Japan, ² Department of Chemistry, Kyoto University, Japan	
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¹ Graduate School of Engineering, Kobe University, Japan, ² Research Center for Membrane and Film Technology, Kobe University, Japan	
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¹ Department of Biotechnology and Life Science, Tokyo University of Agriculture and Technology	
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¹ Universität Stuttgart, Institut für Organische Chemie, Pfaffenwaldring 55, 70569 Stuttgart, Germany	
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¹ Institute of Organic Chemistry, University of Stuttgart	
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¹ Institut für Organische Chemie, Universität Stuttgart, Pfaffenwaldring 55, D-70569, Stuttgart, Germany	
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¹ Oita University	

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Friday, 26 June 2026

08:00 - 12:00	Registration	
09:00 - 10:00	Plenary - Ivan Smalyukh Pavillon Adrien-Pouliot - PLT-1112	
	Liquid Crystals for Thermal Insulation & Space Colonization Ivan Smalyukh ¹ ¹ University of Colorado Boulder & WPI-SKCM2	336
10:00 - 10:30	Coffee break Atrium Pavillon Alexandre-Vachon	
10:30 - 12:30	C - Liquid Crystals at Interfaces Pavillon Adrien Pouliot - PLT-2700	
10:30 - 11:00	Illumination-Induced Behavior of Liquid Crystal Droplets: The Role of Cyanobiphenyl-type Excimers Kenji Katayama ¹ ¹ Chuo University	28
11:00 - 11:15	Morphological changes in microstructures based on 8OCB liquid crystal Daichi Sato ^{1,2} ¹ Department of Applied Physics, Tokyo University of Science, ² Research Institute for Sustainable Chemistry, National Institute of Advanced Industrial Science and Technology	270
11:15 - 11:30	Structure of Ferroelectric Nematic Liquid Crystal Shells Explored by Combined Linear and Nonlinear Optical Microscopy Luka Cmok ^{1,2} ¹ University of Ljubljana, Faculty of Mathematics and Physics, Ljubljana, Slove, ² Jožef Stefan Institute, Ljubljana, Slovenia	209
11:30 - 11:45	Spherical shells of Ferroelectric Nematic Liquid Crystal: Exotic Director Fields and Topological Defects Churchill Benahili Agoni ¹ ¹ University of Luxembourg	365
11:45 - 12:00	Polarization Plasticity in Confined Ferroelectric Nematics Federico Caimi ¹ ¹ Università degli Studi di Milano	156
12:00 - 12:15	Structure of Liquid Crystals under Confinement Conditions According to Neutron Scattering Data Oleksandr Tomchuk ¹ ¹ ISIS Neutron and Muon Source, UK Research and Innovation	308
10:30 - 12:30	D - New Materials Pavillon Adrien Pouliot - PLT-2551	
10:30 - 11:00	The Click Process - A General Method for the Generation of Highly Organized Donor-Acceptor Columnar Mesophases Matthias Lehmann ¹ ¹ University of Würzburg	293

11:00 - 11:15 **Hybrid Multi-Ferroic Liquid Crystal Solar Cells** [Dr.rer.nat. Ananda Rama Krishnan SELVARAJ](#)¹ ¹NMIT, NITTE (deemed to be University) [168](#)

11:15 - 11:30 **Modulation of Cholesteric Liquid Crystals by Dynamic Perturbations from Sumanene-Derived Dopants** [Chung-Yu Kuo](#)¹ [109](#)
¹Department of Materials Science and Engineering, National Cheng Kung University, Taiwan

11:30 - 11:45 **Cyclodextrin Mesogens as Building Blocks for Smectic, Columnar and Cubic Phases** [Vance Williams](#)¹, [Austin Che](#)² ¹Simon Fraser University, ²University of Calgary [387](#)

11:45 - 12:00 **Liquid crystalline semiconductors: carrier mobility of the mixtures for the alkyl homologues of 2,6-di(5'-n-alkyl-2'-thienyl)naphthalenes (nTNATn)** [Yo Shimizu](#)^{1,2} ¹Nara Institute of Science and Technology (NAIST), ²Shinshu University [269](#)

12:00 - 12:15 **Lighting Up Star-Shaped Mesogens: Fluorophore Guests in Chiral and Achiral Liquid Crystal Hosts** [Fathimath Nafla Cholanukath](#)¹ [315](#)
¹Institute of organic Chemistry, University of Wuerzburg, Germany

10:30 - 12:30 **E - Mathematical Modelling, Symmetry and Topology**
Pavillon Adrien Pouliot - PLT-2751

10:30 - 11:00 **Polar topological solitons in confined helielectric nematic fluids** [Satoshi Aya](#)¹ ¹South China University of Technology [20](#)

11:00 - 11:15 **Cholesteric shoots: a new type of liquid crystal solitons** [Christophe Blanc](#)¹ ¹Laboratoire Charles Coulomb (L2C), Université de Montpellier, CNRS, Montpellier, France [392](#)

11:15 - 11:30 **Mechanisms of Soliton Formation and Control in Nematic Liquid Crystals** [Xingzhou Tang](#)¹ ¹Nanjing University of Posts and Telecommunications [126](#)

11:30 - 11:45 **Topological Kinetic Arrest in Frustrated Active Nematics** [Kristiaan Neyts](#)¹ ¹Hong Kong University of Science and Technology [196](#)

11:45 - 12:00 **Microgravity Study of Topological Defect Dynamics in Freely Suspended Liquid Crystal Films on the International Space Station** [Nattaporn Chattham](#)¹ ¹Kasetsart University [381](#)

12:00 - 12:15 **Nematohydrodynamic Defects Around Toroidal Colloids** [Brian Duong](#)¹ ¹Department of Physics and Astronomy, University of Western Ontario [238](#)

10:30 - 12:30 **F - Novel Applications**
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Closing Remarks

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