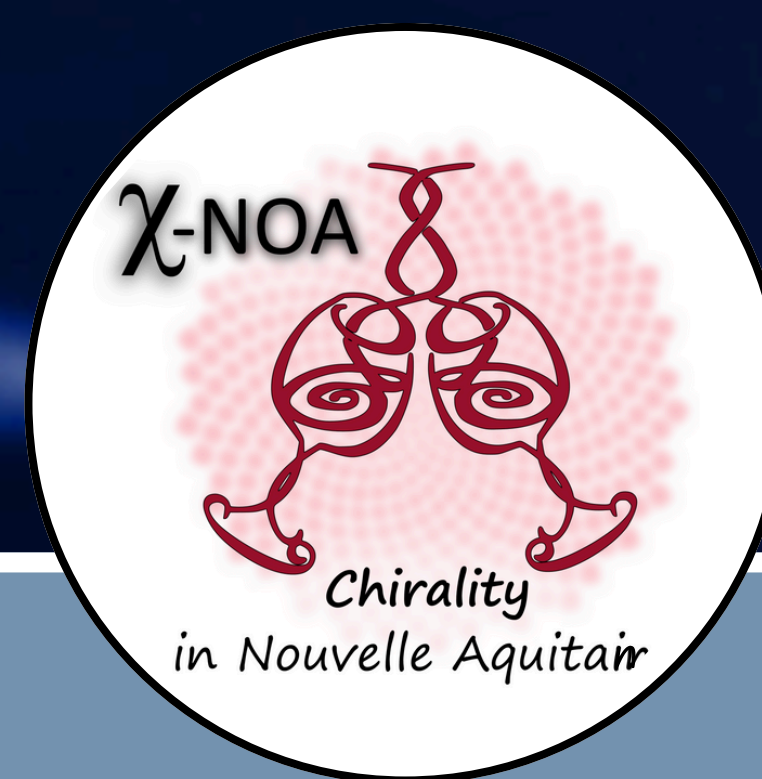




# Exploring Chiral Field-Matter Interaction Through Spacio-Temporal Phenomena

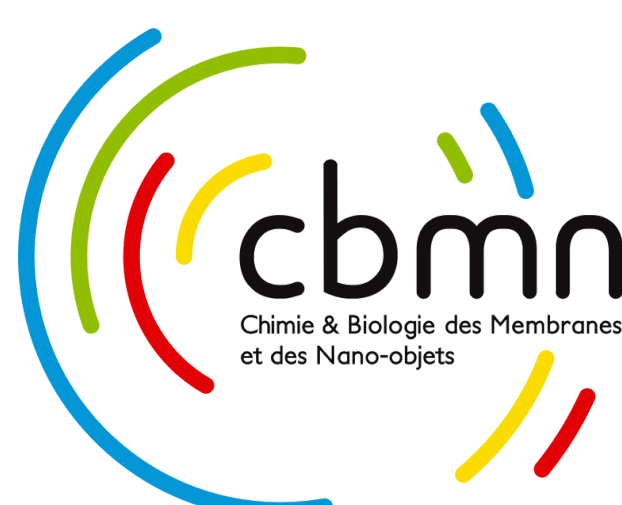
Kickoff Core-to-Core ChiFxM  
Kickoff IRP ChiFiMi  
Annual KiNOA day Joint Symposium



IECB, Bordeaux, France



16-19 November 2025



## About this meeting

Chirality, or broken mirror symmetry, is a fundamental property recently explored in new ways, including chiral fluctuations in biological systems, chiroptical amplification, chirality-induced spin selectivity, and interactions with chiral fields/optical vortices. These advances suggest that external fields (like light, electric, and magnetic fields) can control material properties and influence fields from material science to the origin of life.

Despite its importance, a unified theory and common "scale" for comparing chirality across different temporal and spatial dimensions are lacking. To address this, a symposium will unite researchers from medicine, chemistry, physics, and mathematics under the theme of "dynamic chirality" to explore how chiral structures are induced, transformed, and propagated. The goal is to establish a new scientific foundation for "chiral materials science" and pioneer new design principles for functional chiral materials.

## Symposium Organizers

|       |          |                                            |
|-------|----------|--------------------------------------------|
| Reiko | Oda      | <i>Symposium Head, Project Coordinator</i> |
| Wijak | Yospanya | <i>Symposium and Project Manager</i>       |
| Eric  | Merlet   | <i>Local Organizer</i>                     |
| Yann  | Ferrand  | <i>Local Organizer</i>                     |
| Yoko  | Goto     | <i>Secretary</i>                           |
| Jun   | Harada   | <i>Secretary</i>                           |

## Sponsors

- CNRS International Research Project "Chiral Field-Matter Interaction (ChiFiMi)"
- University of Bordeaux Program UB LIA/ UB LI2A "Chiral Field-Matter Interaction (ChiFiMi)"
- JSPS Core-to-Core Program "Unexplored Scientific Research on Chiral Field- Matter Interaction (ChiFxM)"
- CNRS Federation of Research "Chirality in Nouvelle Aquitaine (Ki-NOA)"
- Grand Program of Research (GPR) "LIGHT"

## Special thanks to

Marco Bertuolo, Pamela De La Fuente, Akshaya Kunnummal, Hayaki Shimizu, Amrutha Manoj Lena, Sarah Nassari, Dario Bassani, Emilie Pouget, Sylvain Nlate

European Institute of Chemistry and Biology (IECB), Institute of Chemistry & Biology of Membranes & Nano-objects (CBMN), Advanced Institute for Materials Research (WPI-AIMR), Tohoku University

Overall Schedule

| Nov. 16     |                                  | Nov. 17                           |                                     | Nov. 18              |                        | Nov. 19     |                    |
|-------------|----------------------------------|-----------------------------------|-------------------------------------|----------------------|------------------------|-------------|--------------------|
| 11:00-13:20 | Registration                     | 9:00                              | YAMAMOTO Hiroshi                    | 9:00                 | RODRIGUEZ Vincent      | 9:00        | ZHANG Yizhou       |
|             |                                  | 9:20                              | DI BARI Lorenzo                     | 9:20                 | PAUL Y Mathias         | 9:20        | DEL GUERZO André   |
|             |                                  | 9:40                              | ZINNA Francesco                     | 9:40                 | BÜRGI Thomas           | 9:40        | TAKAFUJI Makoto    |
|             |                                  | 10:00                             | SUITO Hiroshi                       | 10:00                | IMAHORI Hiorshi        | 10:00       | OLIVIER Céline     |
|             |                                  | 10:20-10:50                       | Coffee Break                        | 10:20-10:50          | Coffee Break           | 10:20-10:50 | Coffee Break       |
|             |                                  | 10:50                             | WATTANAKIT Chularat                 | 10:50                | JANČAŘÍK Andrej        | 10:50       | IKAI Tomoyuki      |
|             |                                  | 11:10                             | TOGAWA Yoshihiko                    | 11:10                | MATSUDA Kenji          | 11:10       | MEINERT Cornelia   |
|             |                                  | 11:30                             | BATTLE Yann                         | 11:30                | SUGIURA Ken-ichi       | 11:30       | SUGAHARA Haruna    |
|             |                                  | 11:50                             | FERRAND Yann                        | 11:50                | WANG Chenxu            | 11:50       | TAKIMOTO Kazuyoshi |
|             |                                  | 12:10                             | MORI Tadashi                        | 12:10                | BASSANI Dario          | 12:10       | ADSCHIRI Tadafumi  |
| 13:20-13:50 | Opening                          | 12:30-13:30                       | Lunch                               | 12:30                | WADA Takehiko          | 12:30       | Closing            |
|             |                                  |                                   |                                     | 12:50-13:50          | Lunch                  | 12:50-13:50 | Lunch              |
|             |                                  | 13:30                             | HASEGAWA Masashi                    |                      |                        |             |                    |
|             |                                  | 13:50                             | SASABE Junpei                       | 13:50                | KISHINE Junichiro      |             |                    |
|             |                                  | 14:10                             | AVARVARI Narcis                     |                      |                        |             |                    |
| 14:30       | BLANCHET Valerie                 | 14:10                             |                                     |                      |                        |             |                    |
| 14:50       | SHIGEMITSU Hajime                | 14:30-15:30<br>(Raising Problems) | Round table 1<br>(Raising Problems) | 14:10-15:30<br>(Q&A) | Round table 2<br>(Q&A) |             |                    |
| 15:10       | OKAZAKI Yutaka                   |                                   |                                     |                      |                        |             |                    |
| 15:30-16:00 | Coffee Break                     |                                   |                                     |                      |                        |             |                    |
| 16:00       | ISHII Ayumi                      | 15:30-16:30                       | Poster Session P17-X                | 15:30-16:30          | Poster Session P18-X   |             |                    |
| 16:20       | NISHIHARA Hiroto                 | 16:30                             | IMAI Yoshitane                      | 16:30                | SAGAWA Takashi         |             |                    |
| 16:40       | GRELET Eric                      | 16:50                             | BRASSELET Etienne                   | 16:50                | YOKO Akira             |             |                    |
| 17:00       | HILLARD Elizabeth                | 17:10                             | SOJIC Neso                          | 17:10                | YOSPANYA Wjiak         |             |                    |
| 17:20       | MATSUO Koichi                    | 17:30                             | KUHN Alexander                      | 17:20                | POUGET Emilie          |             |                    |
| 17:40       | YABU Hiroshi                     | 17:50                             | UCHIDA Yoshiaki                     |                      |                        |             |                    |
| 18:00-18:30 | Poster Hanging & Free discussion |                                   |                                     |                      |                        |             |                    |
| 18:30       | Cocktail                         | 19:30                             | Gala                                |                      |                        |             |                    |

## Poster Presentation

### Nov. 17

|        |                  |                  |
|--------|------------------|------------------|
| P17-1  | BORGES ANASTÁCIO | Rita             |
| P17-2  | YAMAUCHI         | Mitsuaki         |
| P17-3  | LAURO            | Francesca Romana |
| P17-4  | TAKIMOTO         | Kazuyoshi        |
| P17-5  | KUNNUMMAL        | Akshaya          |
| P17-6  | YOSPANYA         | Wijak            |
| P17-7  | FURLANETTO       | Emma             |
| P17-8  | SHINKAWA         | Eriko            |
| P17-9  | BERTUOLO         | Marco            |
| P17-10 | MANOJ LENA       | Amrutha          |
| P17-11 | DE LA FUENTE     | Pamela           |
| P17-12 | NASSARI          | Sarah            |

### Nov. 18

|        |            |          |
|--------|------------|----------|
| P18-1  | SUZUKI     | Shinjiro |
| P18-2  | SHIGEMITSU | Hajime   |
| P18-3  | HATAKENAKA | Ryoji    |
| P18-4  | PERRO      | Adeline  |
| P18-5  | SHIMIZU    | Hayaki   |
| P18-6  | KORDESTANI | Nazanin  |
| P18-7  | WASHIMI    | Hagino   |
| P18-8  | COLOMA     | Isabel   |
| P18-9  | KASHIMA    | Hikaru   |
| P18-10 | SARKAR     | Sudeep   |
| P18-11 | HANDZLIK   | Gabriela |

**November 16, 2025**

13:20 ~ 13:50 **Official Presentation**

Toshiyuki Takagi

*Director of JSPS Strasbourg Office*

Laurent Servant

*Vice-President of International Network, University of Bordeaux*

Hiroshi Yabu

*Tohoku University*

Makoto Takafuji

*University of Kumamoto*

Takashi Sagawa

*Kyoto University*

Gille Guichard

*Director of Research Team Incubator, IECB, University of Bordeaux*

Reiko Oda

*Coordinator of JSPS Core-to-Core "ChiFxm" and CNRS & University of Bordeaux IRP "ChiFiMi"*

**Oral Session 1** (Chairperson: Ayumi Ishii)

13:50 ~ 14:10 **O16-1**

**Synthesis and applications of luminescent macrocycles**

Jérôme Lacour

*Department of Organic Chemistry, University of Geneva, Switzerland*

14:10 ~ 14:30 **O16-2**

**Visualization of edge states in topological helix chains**

Takafumi Sato

*Department of Physics & WPI-AIMR & CSIS & SRIS & MathCCS, Tohoku University, Japan*

14:30 ~ 14:50 **O16-3**

**Probing Chiroptical Effects in Chiral Molecules and Two-Dimensional Quantum Materials via Photoemission Spectroscopy**

Valérie Blanchet

*Université de Bordeaux-CNRS-CEA, CELIA, UMR5107, France*

14:50 ~ 15:10 **O16-4**

**Dynamic Changes in the Chiroptical Properties of Cyclic Oligosaccharides Bearing Multiple Chromophores**

Hajime Shigemitsu

*Department of Applied Chemistry, Graduate School of Engineering, Osaka University, Japan*

- 15:10 ~ 15:30 **O16-5**  
**Generation of chiroptical signals from achiral substances through mirror symmetry breaking at nano or macroscopic scale**  
Yutaka Okazaki  
*Graduate School of Energy Science, Kyoto University, Japan*
- 15:30 ~ 16:00 **Coffee Break**
- Oral Session 2** (Chairperson: Jérôme Lacour)
- 16:00 ~ 16:20 **O16-6**  
**Spin-selective Photodetection in One-dimensional Helical Perovskites**  
Ayumi Ishii  
*School of Advanced Science and Engineering, Waseda University, Japan*
- 16:20 ~ 16:40 **O16-7**  
**Size-controlled graphene growth on oxide ceramics**  
Hirotomo Nishihara  
*WPI-IMRAM & WPI-AIMR, Tohoku University, Japan*
- 16:40 ~ 17:00 **O16-8**  
**Chirality Transfer in Virus Self-Assembly**  
Eric Grelet  
*Centre de Recherche Paul-Pascal, CNRS & University of Bordeaux, France*
- 17:00 ~ 17:20 **O16-9**  
**Building Robust Molecular Platforms for CISS: Self-Assembled Monolayers of Diruthenium Paddlewheel Complexes**  
Elizabeth A. Hillard  
*Univ. Bordeaux, CNRS, Bordeaux INP, ICMCB, UMR 5026, France*
- 17:20 ~ 17:40 **O16-10**  
**Characterization of Biomolecule Structure using Synchrotron Radiation Spectroscopy in Ultraviolet Region**  
Koichi Matsuo  
*HiSOR & Graduate School of Advanced Science and Engineering, Hiroshima University, Japan*



- 17:40 ~ 18:00 **O16-11**  
**Metal-Phthalocyanine Catalysts for Various Electrochemical Reactions**  
Hiroshi Yabu  
*WPI-AIMR, Tohoku University & AZUL Energy Inc. & AZUL Energy X Tohoku University Co-Creation Center, Japan*
- 18:00 ~ 18:30 **Free Discussion and Poster Hanging**
- 18:30 ~ **Welcome Party**

**November 17, 2025**

**Oral Session 3** (Chairperson: Yoshihiko Togawa)

- 9:00 ~ 9:20 **O17-1**  
**Dynamical Chirality, Electron Spin, and CISS**  
Hiroshi M. Yamamoto  
*Institute for Molecular Science & SOKENDAI & The University of Tokyo, Japan*
- 9:20 ~ 9:40 **O17-2**  
**Reciprocal chiroptical properties of molecules and materials for chiral photonics**  
Lorenzo Di Bari  
*Dipartimento di Chimica e Chimica Industriale – Università di Pisa, Italy*
- 9:40 ~ 10:00 **O17-3**  
**Non-reciprocal chiroptical properties of chiral materials and their applications in chiral photonics**  
Francesco Zinna  
*Dipartimento di Chimica e Chimica Industriale, Università di Pisa, Italy*
- 10:00 ~ 10:20 **O17-4**  
**Helicity selectivity in time-periodic fluid flows through spiral tubes**  
Hiroshi Suito  
*WPI-AIMR, Tohoku University, Japan*
- 10:20 ~ 10:50 **Coffee Break**

**Oral Session 4** (Chairperson: Hiroshi M. Yamamoto)

- 10:50 ~ 11:10 **O17-5**  
**Design and Applications of chiral encoded metal surfaces**  
Chularat Wattanakit  
*Vidyasirimedhi Institute of Science and Technology (VISTEC), Thailand*
- 11:10 ~ 11:30 **O17-6**  
**Spin and Phonon Angular Momenta Control via Dynamical Chirality**  
Yoshihiko Togawa  
*Osaka Metropolitan University & Quantum Research Center for Chirality, Institute for Molecular Science, Japan*



- 11:30 ~ 11:50 **O17-7**  
**Mueller Matrix Polarimetry for the Characterization of Chiral Nanostructures**  
 Yann BATTIE  
*LCP-A2MC, Université de Lorraine, France*
- 11:50 ~ 12:10 **O17-8**  
**Decoding Chiral Interactions: Foldamer Hosts Meet Sugar Guests**  
 Yann Ferrand  
*CBMN, UMR5248 CNRS Bordeaux University, France*
- 12:10 ~ 12:30 **O17-9**  
**The Role of Symmetry in the Chiroptical Properties of Double Helicenes**  
 Tadashi Mori  
*Research Center for Environmental Preservation and Department of Applied Chemistry, Graduate School of Engineering, The University of Osaka Japan*
- 12:30 ~ 13:30 **Lunch**
- Oral Session 5 (Chairperson: Yoshitane Imai)**
- 13:30 ~ 13:50 **O17-10**  
**Synthesis and Chiroptical Properties of Planalar Chiral  $\pi$ -Conjugated Compounds Based on [2.2]Paracyclophane**  
 Masashi Hasegawa  
*Department of Chemistry, Graduate School of Science, Kitasato University, Japan*
- 13:50 ~ 14:10 **O17-11**  
**Beyond Homochirality: D-Amino Acids from Brain to Gut**  
 Jumpei Sasabe  
*Keio University School of Medicine & Keio University, WPI-Bio2Q, Japan*
- 14:10 ~ 14:30 **O17-12**  
**Chirality Induced Spin Selectivity (CISS) effect with helicene and tetrathiafulvalene materials**  
 Narcis Avarvari  
*University of Angers, CNRS, MOLTECH-Anjou Laboratory, Angers, France*

14:30 ~ 15:30 **Round table Discussion 1: Raising Problems**  
Valerie Blanchet, Jun Kishine, Hiroaki Nakamura, Jumpei Sasabe,  
Hiroshi Suito, Yoshihiko Togawa, Yoshiaki Uchida, Hiroshi Yamamoto  
& Reiko Oda

15:30 ~ 16:30 **Poster Session P17-1 ~ P17-12**

**P17-1**

**Length-Dependent Nonlinear Chiroptical Signatures in Aromatic Oligoamide Foldamers: From Solutions to Surfaces**

Rita Borges Anastácio

*ISM, Université de Bordeaux, France*

**P17-2**

**Thermal-Triggered Supramolecular Polymerization of Tetrabenzoporphyrin into Pyramidal Aggregates**

Mitsuaki Yamauchi

*Institute for Chemical Research, Kyoto University, Japan*

**P17-3**

**Heterobimetallic Chiral Complexes as a Route to Enhance Circularly Polarized Electrochemiluminescence**

Francesca Romana Lauro

*University of Bordeaux, Bordeaux INP, ISM, France*

**P17-4**

**Chiral Discrimination via Polyampholyte Self-Coacervation**

Adeline Perro

*Université de Bordeaux, ISM, NSysA, ENSMAC, France*

**P17-5**

**Investigation of The Chiral Properties of Nano Helical Structures by Tuning Their Morphological Characteristics**

Akshaya Kunnummal

*CBMN, CNRS, Bordeaux INP, France & WPI-AIMR & IMRAM, Tohoku University, Japan*

**P17-6**

**Fabrication of Chiral Mesoscopic Silica Nanohelices: Morphology Optimization via Machine Learning-Based Quantitative Assessment**

Wijak Yospanya

*WPI-AIMR, Tohoku University, Japan*

**P17-7**

**Liquid crystal particle-like structure driven by light**

Emma Furlanetto

*LOMA, CNRS, University of Bordeaux, France*

**P17-8**

**Discrete Differential Geometric Approach to Chirality**

Eriko Shinkawa

*Mathematical Science Center for Co-creative Society & WPI-AIMR, Tohoku University, Japan*

**P17-9**

**Hierarchical Chirality Transfert in Chiral Organic Material by Silica Nanohelix**

Marco Bertuolo

*CBMN, University of Bordeaux, CNRS, Bordeaux INP, France*

**P17-10**

**Silica Nanohelices as Templates for Enantioenrichment in Achiral Supramolecular Assemblies and Racemic Polymeric Systems**

Amrutha Manoj Lena

*WPI-AIMR, Tohoku University, Japan*

**P17-11**

**Chiral plasmonic nanostructures as enantioselective photocatalysts**

Pamela De La Fuente

*CBMN, CNRS, Bordeaux INP, Université de Bordeaux, France*

**P17-12**

**Chemical modification of lignin fragments by supported polyoxometalate catalysts in water**

Sarah Nassiri

*Univ. Bordeaux, CNRS, Bordeaux INP, CBMN, UMR 5248, France*

**Oral Session 6 (Chairperson: Masashi Hasegawa)**

16:30 ~ 16:50 **O17-13**

**Fast and Reversible Circularly Polarized Luminescence Switching**

Yoshitane Imai

*Kindai University, Japan*

- 16:50 ~ 17:10 **O17-14**  
**Chirality at SINGULAR Lab: matter, light, and sound**  
Etienne Brasselet  
*Université de Bordeaux, CNRS, Laboratoire Ondes et Matière d'Aquitaine, France*
- 17:10 ~ 17:30 **O17-15**  
**Circularly-Polarized Electrochemiluminescence**  
Neso Sojic  
*University of Bordeaux, Bordeaux INP, ISM, France*
- 17:30 ~ 17:50 **O17-16**  
**Chiral-Encoded Pt-Ir Surfaces as Spin Filter for Enhanced Oxygen Reduction**  
Alexander Kuhn  
*School of Energy Science and Engineering, Vidyasirimedhi Institute of Science and Technology, Thailand & University Bordeaux, CNRS, Bordeaux INP, ISM UMR 5255, France*
- 17:50 ~ 18:10 **O17-17**  
**Structures and Functions of Cholesteric Liquid Crystalline Shell**  
Yoshiaki Uchida  
*The University of Osaka, Japan*
- 19:30 ~ **Gala Dinner**

**November 18, 2025**

**Oral Session 7** (Chairperson: Andrej Jančařík)

- 9:00 ~ 9:20 **O18-1**  
**Probing the nonlinear chiroptical activity of multi-turn aromatic helices using linearly polarized light**  
Vincent Rodriguez  
*Institut des Sciences Moléculaires, UMR 5255 CNRS, Université de Bordeaux, France*
- 9:20 ~ 9:40 **O18-2**  
**Plasmonic chiral metasurfaces from self-assembled silver nanowires**  
Matthias Pauly  
*Université de Strasbourg, CNRS, Institut Charles Sadron & ENS de Lyon, CNRS, LCH, UMR 5182, France*
- 9:40 ~ 10:00 **O18-3**  
**Monolayer-protected metal clusters: Chirality and dynamic nature**  
Thomas Bürgi  
*University of Geneva, Department of Physical Chemistry, Switzerland*
- 10:00 ~ 10:20 **O18-4**  
**Charge-Transfer Excited States as Models for Organic Solar Cells**  
Hiroshi Imahori  
*Department of Molecular Engineering & ILAS, Kyoto University, Japan*
- 10:20 ~ 10:50 **Coffee Break**

**Oral Session 8** (Chairperson: Vincent Rodriguez)

- 10:50 ~ 11:10 **O18-5**  
**Acenohelicenones**  
Andrej Jančařík  
*CRPP-CNRS, France*
- 11:10 ~ 11:30 **O18-6**  
**Spin-State Dependent Photoexcitation Behavior of Di- and Triradicals and the Double Closed-Ring Isomer of a Diarylethene Fused Dimer**  
Kenji Matsuda  
*Department of Synthetic Chemistry and Biological Chemistry, Graduate School of Engineering, Kyoto University, Japan*

- 11:30 ~ 11:50 **O18-7**  
**Molecular Design of CPL Chromophores Based on Group Theory: Importance of Translational and Rotational Basis Functions**  
 Ken-ichi Sugiura  
*Department of Chemistry, Tokyo metropolitan University, Japan*
- 11:50 ~ 12:10 **O18-8**  
**Numerical Study of Chiral Material Scattering under Ultraviolet Vortex Beam**  
 Chenxu Wang  
*National Institute for Fusion Science, Japan*
- 12:10 ~ 12:30 **O18-9**  
**Supramolecular effects on chiral induction**  
 Dario M. Bassani  
*University of Bordeaux, France*
- 12:30 ~ 12:50 **O18-10**  
**Novel Strategy for Inducing Molecular Chirality by Supramolecular Asymmetric Photochirogenesis (SMAP) Mediated by Biopolymers and Chiral Silicates as Chiral Reaction Nanoreactor**  
 Takehiko Wada  
*IMRAM & INGEM, Tohoku University, Japan*
- 12:50 ~ 13:50 **Lunch**  
  
**Oral Session 9** (Chairperson: Reiko Oda)
- 13:50 ~ 14:10 **O18-11**  
**Toward Quantification of Chirality and Its Connection to Material Functions**  
 Junichiro Kishine  
*The Open University of Japan, Japan*
- 14:10 ~ 15:30 **Round table Discussion 2: Questions and Answers**  
 Valerie Blanchet, Jun Kishine, Hiroaki Nakamura, Jumpei Sasabe, Hiroshi Suito, Yoshihiko Togawa, Yoshiaki Uchida, Hiroshi Yamamoto & Reiko Oda

15:30 ~ 16:30 **Poster Session P18-1 ~ P18-11**

**P18-1**

**Synthesis of a heptacene derivative using photoprecursor approach to investigate its excited-state dynamics**

Shinjiro Suzuki

*Kyoto University, Japan*

**P18-2**

**Dynamic Changes in the Chiroptical Properties of Cyclic Oligosaccharides Bearing Multiple Chromophores**

Hajime Shigemitsu

*Department of Applied Chemistry, Graduate School of Engineering, Osaka University, Japan*

**P18-3**

**Dicyclohepta[cd,fg]-as-indacene as a Non-benzenoid Isomer of Perylene with an Extremely Narrow Optical Band Gap**

Ryoji Hatakenaka

*Institute for Chemical Research, Kyoto University, Japan*

**P18-4**

**Thermo- and Mechano-chromic Discrete Iridium(III) Complexes Constructed through Chiral Self-Sorting**

Kazuyoshi Takimoto

*Department of Chemistry, Kitasato University, Japan*

**P18-5**

**Enhancing Chiroptical Properties through Hierarchical Architectures of Mesoscopic Chiral Nanostructures**

Hayaki Shimizu

*CBMN-UMR5248, Université de Bordeaux, CNRS, France & Graduate School of Energy Science, Kyoto University, Japan*

**P18-6**

**X-ray Optical Activity in Coordination Complexes: A New Dimension in Chiroptical Spectroscopy**

Nazanin Kordestani

*University of Bordeaux, CNRS, Bordeaux INP, ICMCB, UMR 5026, France*

**P18-7**

**Synthesis and Chiroptical Property of Pyrene Tetramer Having D2 Symmetry**

Hagino Washimi

*Graduate School of Science, Tokyo Metropolitan University, Japan*

**P18-8**

**Chirality-induced spin selectivity in paddlewheel-based monolayers**

Isabel Coloma

*University of Bordeaux, CNRS, Bordeaux INP, ICMCB, UMR 5026, France*

**P18-9**

**CPL active perovskite quantum dots prepared in chiral molecular assembly**

Hikaru Kashima

*Faculty of Advanced Science and Technology, Kumamoto University, Japan*

**P18-10**

**Design and Synthesis of Heteroatom-Incorporated Azahelicenes for Singlet Oxygen Generation**

Sudeep Sarkar

*ISM UMR 5255, CNRS Univ. Bordeaux, France*

**P18-11**

**Coupling chirality with magnetism in lanthanide-helicene complexes**

Gabriela Handzlik

*Faculty of Chemistry, Jagiellonian University, Kraków, Poland*

**Oral Session 10** (Chairperson: Junichiro Kishine)

16:30 ~ 16:50

**O18-12**

**Chirality induced specific interactions of porphyrins**

Takashi Sagawa

*Graduate School of Energy Science, Kyoto University, Japan*

16:50 ~ 17:10

**O18-13**

**Continuous flow hydrothermal synthesis of surface modified ultrafine metal oxide nanoparticles**

Akira Yoko

*SRIS & WPI-AIMR, Tohoku University, Japan*

17:30 ~ 17:40

**O18-14**

**Chiral Nano-Morphological Materials - The Space in Between**

Wijak Yospanya

*WPI-AIMR, Tohoku University, Japan*



17:40 ~ 17:50 **O18-15**

**Strategies to induce chirality to magnetic nanoparticles. Towards the magnetochiral dichroism phenomenon**

Emilie Pouget

*CBMN, University of Bordeaux, France*

**November 19, 2025**

**Oral Session 11** (Chairperson: Tomoyuki Ikai)

- 9:00 ~ 9:20 **O19-1**  
**Tuning Nanostructured Polymeric Membranes via Lyotropic Assembly**  
Yizhou Zhang  
*CRC-MS, WPI-AIMR, Tohoku University, Japan*
- 9:20 ~ 9:40 **O19-2**  
**Nano-Photochemistry and Super-Resolution Imaging exploiting Microscopy; Application to Self-Assembled Nanofibers and Gels**  
André Del Guerzo  
*Université de Bordeaux, UMR5255 ISM, CNRS, Bordeaux INP, France*
- 9:40 ~ 10:00 **O19-3**  
**Modulation of circular polarization properties in supramolecular gels via metal–ligand complexation**  
Makoto Takafuji  
*Faculty of Advanced Science and Technology, Kumamoto University, Japan*
- 10:00 ~ 10:20 **O19-4**  
 **$\pi$ -Extended Aza-Helicenes : Synthesis and (Chir)Optical Properties in Solution**  
Celine Olivier  
*ISM UMR 5255, CNRS Univ. Bordeaux, France*
- 10:20 ~ 10:50 **Coffee Break**

**Oral Session 12** (Chairperson: André Del Guerzo)

- 10:50 ~ 11:10 **O19-5**  
**Incorporating Chirality into Ladder Polymers: Emerging Secondary Structures and Functions**  
Tomoyuki Ikai  
*Department of Molecular and Macromolecular Chemistry, Graduate School of Engineering, Nagoya University, Japan*
- 11:10 ~ 11:30 **O19-6**  
**Chirality in Space and on Earth: Why Nature Avoids Molecular Twins**  
Cornelia Meinert  
*Institut de Chimie de Nice, CNRS UMR 7272, Université Côte d'Azur, France*

- 11:30 ~ 11:50 **O19-7**  
**Sample Return Missions from the Extraterrestrial Bodies to Investigate the Chirality of Organic Molecules in the Solar System**  
Haruna Sugahara  
*Institute of Space and Astronautical Science, JAXA, Japan*
- 11:50 ~ 12:10 **O19-8**  
**Thermo- and Mechano-chromic Discrete Iridium(III) Complexes Constructed through Chiral Self-Sorting**  
Kazuyoshi Takimoto  
*Department of Chemistry, Kitasato University, Japan*
- 12:10 ~ 12:30 **O19-9**  
**Supercritical Hydrothermal Synthesis of Nanoparticles: A Pathway to Future Functional Chiral Materials**  
Tadafumi Adschiri  
*WPI-AIMR, Tohoku University, Japan*
- 12:30 ~ 12:50 **Closing**
- 12:50 ~ 13:50 **Lunch**