



European Materials Research Society

2026 Spring Meeting

May 25 - 29
Strasbourg Convention Centre

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SYMPOSIUM R

Chirality in inorganic solids: from dissymmetry to functional properties

Oral sessions : BOSTON - FIRST FLOOR

Poster sessions : ETOILE - FIRST FLOOR

Symposium Organizers:

Aldo ROMERO, West Virginia University, USA

Emma MCCABBE, Durham University, UK

Eric BOUSQUET (Main organizer), University of Liège, Belgium

Fernando GOMEZ-ORTIZ, University of Liège, Belgium

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Wednesday May 27

R11 Electronic chirality, band structure and spin polarization

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- 13:45 919 Chirality and Topology
FELSER Claudia (Invited)
- 14:15 3181 Long-Range Spin Transport in Chiral Gold
MARELLY Offek
- 14:30 2613 Electronic Chirality, Spin Texture, and Symmetry Control in Chiral 3D Kagome Lattices
ARDILA-GUTIERREZ Carlos Eduardo
- 14:45 3239 Chiral Hybrid Altermagnets
STROPPA Alessandro (Invited)
- 15:15 2013 Quantum kinetic theory for chirality-dependent spin polarization
SUMITA Shuntaro
- 15:30 473 Ultrafast spin dynamics induced by infrared and Raman driven axial phonons
ZHU Hanyu (Invited)
- 16:00 941 Designing chirality via rigid-unit modes in perovskite polytypes
SIMPSON Struan

Thursday May 28

R12 Chiral and axial phonons

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- 08:30 2925 Controlling solid-state chirality with phonons
JURASCHEK Dominik (Invited)
- 09:00 1012 Sponsor presentation
BOUSQUET Eric
- 09:15 2307 Field-induced phonon angular momentum across the superconducting transition in fullerenes
OKADA Natsuki
- 09:30 167 Chiral and axial phonons and their interaction with electron spin
GEILHUF Matthis (Invited)

Thursday May 28

R13 Chirality and Optical measurement

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- 10:30 246 Is the Left ever Right?
GLAZER Mike (Invited)
- 11:00 2645 Natural optical activity in solids: an ab initio approach based on Wannier interpolation
URRU Andrea
- 11:15 814 Spin-orbit coupling renormalization of the natural optical activity of Pb5Ge3011 from first-principles
ZABALO Asier

- 11:30 2468 Understanding circular dichroism and circular birefringence in TeO2
KSHIRSAGAR Aseem Rajan
- 11:45 1152 Towards Raman Optical Activity of Solid-State
EZRA BRANDWEIN Shaked

Thursday May 28

R14 Chirality control, enantioselectivity, quantification

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- 13:45 488 Chirality studies of inorganic oxides: Induction of chirality and its structural quantification
AVNIR David (Invited)
- 14:15 815 Chiral Domains Induced by Structural Phase Transition in CsCuCl3
PAPPAS Emma
- 14:30 853 Microscopic chirality measures in electronic systems
HOSHINO Shintaro (Invited)
- 15:00 392 Handedness Selection and Hysteresis of Chiral Orders in Crystals
FAVA Mauro
- 15:15 2601 Non-Stochastic Emergence of Structural Chirality in Epsomite (MgSO4·7H2O)
CUCCIA Louis
- 15:30 464 A description of chirality based on symmetry-adapted complete basis
KUSUNOSE Hiroaki (Invited)

Thursday May 28

RP04 Poster session 4

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- 16:30 02_1303 Thorium-229 as a Chiral Phonon Detector
PIMON Martin
- 16:30 03_1533 Chemical-Vapor Deposition for Low-dimensional Chiral Perovskite Nanowires
WANG Kaichen
- 16:30 04_2205 Electron chirality in magnetic materials and its theoretical analysis
OKAMOTO Masato
- 16:30 05_2474 Chemical-Vapor Deposition for Low-dimensional Chiral Perovskite Nanowires
WANG Kaichen
- 16:30 06_2520 Enantiomeric excess can control circular dichroism and the effect of electrostatic embedding on 2D low dimensional hybrid perovskites
ALEHYANE Amina
- 16:30 07_2675 Tunable Chiral Morphology in MoS2 Colloidal Nanostructures via Hydrothermal Synthesis
BRANZI Lorenzo
- 16:30 09_475 Evidence of asymmetric bonding between twisted membranes of SrTiO3
ZHU Hanyu

Friday May 29

R16 Structural chirality and chiral phase transitions

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08:30	1027	Structural chirality and functionality in incommensurate modulated tetragonal tungsten bronzes GRENDAL Ola (Invited)
09:00	644	Search of new materials with displacive chiral phase transition MAMOUDOU TAGANGA Samsia
09:30	1577	Hidden chirality in ferroaxial materials TAUFERTSHÖFER Nora
09:45	1109	Circularly polarized Raman spectroscopy of LaBGeO5 OISHI Eiichi

Friday May 29

R17 Chirality in solids and associated responses

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10:30	1254	Chirality in Solids: Cooperative Formation, Control, and Cross-Coupled Responses KIMURA Kenta (Invited)
11:00	1242	Transferring molecular chirality to nano crystals GÓMEZ-GRANA Sergio
11:15	209	Direct Synthesis of Micrometer-Scale Chiral Gold Materials RAMOS DOCAMPO Miguel Alexandre
11:30	938	A Computational Screening of the Asymmetric Hydrogenation of Hydroxyacetone on an Intrinsically Chiral Platinum Surface BRENNAN Kevin
11:45	763	Chiral Bio-Silica in Diatoms: Evidence of Enantioselective Molecular Recognition ZILBERSTEIN Batel