

Topological phenomena in 'ordinary' systems
Carlos Egues
Universidade de São Paulo

Program on Anomalies, Topology and Quantum Information in Field Theory and Condensed Matter Physics
June 16 - 27, 2025
at Instituto de Física de São Carlos

INSTITUTO PRINCIPIA

Jose Carlos Egues (USP, Brazil)

ICTP-SAIFR
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Program on Anomalies, Topology and Quantum Information in Field Theory and Condensed Matter Physics June 16 - 27 2025 Speakers: Jose Carlos Egues (USP, Brazil) More Information: <https://www.ictp-saifr.org/patqi2025/>

Transcrição

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Program on Anomalies, Topology and Quantum Information in Field Theory and Condensed Matter Physics



June 16-27, 2025

ICTP-SAIFR, São Paulo, Brazil

Venue: [Principia Institute](#)

Zoom ID: 891 5151 1648

Password: theory

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Lecturers

Workshop Speakers

Program

Posters

2025-06-16

- 09:00 - Shinsei Ryu (Princeton University, USA): [Higher Berry Phase in Quantum Many-Body Systems - Class 1](#)
- 11:00 - Fiona Burnell (University of Minnesota, USA): [Topology, Hidden Information and Phases of Matter - Class 1](#)
- 15:00 - Paul Fendley (University of Oxford, UK): [Non-invertible symmetries and dualities from the ground up - Class 1](#)

2025-06-17

- 09:00 - Shinsei Ryu (Princeton University, USA): Higher Berry Phase in Quantum Many-Body Systems - Class 2
- 11:00 - Paul Fendley (University of Oxford, UK): [Non-invertible symmetries and dualities from the ground up - Class 2](#)
- 15:00 - Horacio Casini (Bariloche Atomic Centre, Argentina): [Symmetries, algebras and entropy in Quantum Field Theory - Class 1](#)

2025-06-18

- 09:00 - Shinsei Ryu (Princeton University, USA): [Higher Berry Phase in Quantum Many-Body Systems - Class 3](#)

- 11:00 - Fiona Burnell (University of Minnesota, USA): [Topology, Hidden Information and Phases of Matter - Class 2](#)
- 15:00 - John McGreevy (UC San Diego, USA): [The generalized Landau paradigm - Class 1](#)

2025-06-19

- 09:00 - John McGreevy (UC San Diego, USA): [The generalized Landau paradigm - Class 2](#)
- 11:00 - Paul Fendley (University of Oxford, UK): [Non-invertible symmetries and dualities from the ground up - Class 3](#)
- 15:00 - Horacio Casini (Bariloche Atomic Centre, Argentina): [Symmetries, algebras and entropy in Quantum Field Theory - Class 2](#)

2025-06-20

- 09:00 - John McGreevy (UC San Diego, USA): [The generalized Landau paradigm - Class 3](#)
- 11:00 - Fiona Burnell (University of Minnesota, USA): [Topology, Hidden Information and Phases of Matter - Class 3](#)
- 15:00 - Horacio Casini (Bariloche Atomic Centre, Argentina): [Symmetries, algebras and entropy in Quantum Field Theory - Class 3](#)

2025-06-23

- 09:30 - German Sierra (Instituto de Fisica Teorica UAM-CSIC, Spain): [Bridging the Lattice and the Continuum: Dualities and Criticality](#)
- 11:00 - Leo Radzihovsky (University of Colorado, USA): [Rotated superfluids QFT](#)
- 14:00 - Javier Molina Vilaplana (Universidad Politécnica de Cartagena, Spain): [Entanglement Entropy in CFT with Non-Invertible Symmetries](#)
- 15:30 - Valentín Benedetti (ICTP, Italy): [Modular Invariance and Selection Rules for RG Flows](#)

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- 09:30 - Jaume Gomis (Perimeter Institute, Canada): [TBA](#)
- 11:00 - Horatiu Nastase (IFT-Unesp, Brazil): [Krylov complexity from circuit complexity and from instantons](#)
- 14:00 - Javier Magán (Balseiro Institute, Argentina): [On the existence of non-invertible symmetries](#)
- 15:30 - Vladimir Juricic (Universidad Técnica Federico Santa María, Chile): Non-Hermitian Dirac Matter: Emergent Yukawa-Lorentz Symmetry and Exceptional Magic Angles

2025-06-25

- 09:30 - Jose Carlos Egues (USP, Brazil): [TBA](#)
- 11:00 - Rodrigo Pereira (IIP & UFRN, Brazil): [Fracton-like behavior in a classical spin-orbital model](#)
- 14:00 - Vivian França (UNESP-Aranquera, Brazil): [Entanglement as a Topological Marker in a Confined Superfluid Chain](#)
- 15:30 - Behan Connor (ICTP-SAIIR, Brazil): [In search of generic CFTs in two dimensions](#)

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- 09:30 - Vladimir Korepin (Stony Brook, USA): [Lessons of Many-Body Quantum Mechanics for Circuit Design](#)
- 11:00 - Wei Chen (PUC-Rio, Brazil): [Quantum geometric effects in semiconductors and superconductors](#)
- 14:00 - Luiz Agostinho Ferreira (IFISC-USP): [The hidden symmetries of Yang-Mills theory in \$\(3+1\)\$ -dimensions](#)
- 15:30 - Dmitry Melnikov (UFRN, Brazil): [TQFT as error-correcting codes](#)

2025-06-27

- 09:30 - José Abel Hoyos Neto (USP São Carlos, Brazil): [A powerful method to evaluate the mass gaps of free-particle quantum critical systems](#)
- 11:00 - Caio Lewenkopt (UFRJ, Brazil): [Beyond translational symmetry: Strongly disordered and amorphous topological insulators](#)
- 12:00 - Ho Tat Lam (MIT, USA): [Symmetry Enforced Entanglement from Projective Non-invertible Symmetry](#)