



José Abel Hoyos Neto: A powerful method to evaluate the mass gaps of free-particle quantum...

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Program on Anomalies, Topology and Quantum Information in Field Theory and Condensed Matter Physics June 16 - 27 2025 Speakers: José Abel Hoyos Neto (USP São Carlos, Brazil): A powerful method to evaluate the mass gaps of free-particle quantum critical systems More Information: <https://www.ictp-saifr.org/patqi2025/>

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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

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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](#)

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- 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](#)

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- 15:30 - Dmitry Melnikov (UFRN, Brazil): [TQFT as error-correcting codes](#)

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- 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](#)