



Quantum Information, Dynamics and Ergodicity: From Many-Body Systems to Gravity

February 27 – March 2, 2023
Room 407 Jadwin Hall, Princeton University



Organizers

Vir B. Bulchandani, Amos Chan, Biao Lian, Jonah Kudler-Flam, Vladimir Narovlansky, Shinsei Ryu, and Gautam Satishchandran

Ideas from quantum information theory, quantum chaos and random matrix theory increasingly form a common language across theoretical physics. They have proved crucial to understanding both the mechanisms of thermalization in closed many-body quantum systems and the emergence of spacetime in quantum gravity. This workshop aims to foster new connections between the communities working on such topics, specifically researchers working on dynamics, ergodicity, and measurements in many-body quantum systems, quantum field theory, and gravity.

Free but required registration is now open on the PCTS website or scan the QR code.

<https://forms.gle/jnkJ812oiBhPSpmH8>

Speakers

Mitra Aditi
Ehud Altman
Vijay Balasubramanian
John Chalker
Benjamin Doyon
Fabian Essler
Thomas Faulkner

Wen Wei Ho
Stefan Hollands
Hong Liu
Andreas Ludwig
Mark Mezei
Joel Moore

Olexei Motrunich
Mukund Rangamani
Tadashi Takayanagi
David Weiss
Edward Witten
Ying Zhao

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