

ICTS String Seminar

Title : Causal symmetry breaking: late time physics of holographic quantum chaos

Speaker : Julian Sonner (University of Geneva, Switzerland)

Date : Wednesday, 11th November 2020

Time : 03:00 pm (IST)

Abstract : Quantum chaotic systems are often defined via the assertion that their spectral statistics coincides with, or is well approximated by, random matrix theory. In this talk I will explain how the universal content of random matrix theory emerges as the consequence of a simple symmetry-breaking principle and its associated Goldstone modes. This approach naturally leads to wormhole-like correlations in holography, even for individual theories.

Finally I will comment on very recent results that allow us to extend the Goldstone effective-field-theory approach to operator correlation functions.

ICTS : Please register at

virtual <https://docs.google.com/forms/d/e/1FAIpQLSf0jLgoqiOgDnxbEBGiuIWiOmh9WX8caH-pr13qDBZOO91img/viewform>
seminar

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Recordings of past talks can be found here:

<https://www.youtube.com/channel/UCw9LdPQ5t7Q7muD0qzn70TA>