



INDIAN STATISTICAL INSTITUTE

Theoretical Statistics and Mathematics Unit, Kolkata

LECTURE

Date: January 25, 2024

Time: 04:15 PM

VENUE:

L-infinity

(5th Floor, A.N. Kolmogorov Bhavan), ISI Kolkata

Live-streaming link: <https://www.youtube.com/@csscisikolkata5034/streams>

TITLE:

Second quantization of spectral geometry: entropy and the spectral action

SPEAKER:

Walter van Suijlekom

Radboud University, Nijmegen

ABSTRACT:

We now take the step from the one-particle description given by spectral triples to include multi-particle states. This demands the introduction of a process called second quantization, and we analyze the resulting Clifford algebras as well as the unique equilibrium (KMS) state. We compute its von Neumann information entropy which turns out to be a special case of a spectral action functional.

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