



INDIAN STATISTICAL INSTITUTE

Theoretical Statistics and Mathematics Unit, Kolkata

LECTURE

Date: January 24, 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:

Inner fluctuations of geometry: Morita equivalence and connections

SPEAKER:

Walter van Suijlekom

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ABSTRACT:

We investigate the notion of symmetry transformations between spectral triples, starting with unitary equivalence and building towards Morita equivalences. The latter are described by connections on modules over the algebra, and yield so-called inner fluctuations of geometry. Examples include Yang-Mills connections and Higgs fields; we briefly describe these in relation to particle physics.

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