INDIAN STATISTICAL INSTITUTE

Theoretical Statistics and Mathematics Unit, Kolkata

SEMINAR

Date: November 14, 2024
Time: 02:00 PM

VENUE:

L- 2

(4th Floor, A.N. Kolmogorov Bhavan), ISI Kolkata

TITLE:

Real topological Hochschild homology and the C_2-equivariant Thom spectrum

SPEAKER:

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ABSTRACT:

Analogous to Atiyah's K-Theory with reality which gives a C_2-ring spectrum K\mathbb{R} which is commutative in appropriate sense; Hasselholt and Madsen defined a C_2-equivariant version of Waldhausen S_\dot construction. This induces a Real K-theory functor KR from exact categories with duality to the category of spectra with involution or Real spectra. Emanuele Dotto developed trace methods to study KR, developing a C_2-equivariant version of Topological Hochschild Homology, called Real Topological Hochschild Homology (THR). In this talk we'll discuss interaction between THR and the C_2-equivariant Thom spectrum functor and how it gives a C_2-equivariant version of Blumberg, Cohen, Schlichtkrull's work. We'll also discuss an application in the context of KR.

ALL ARE CORDIALLY INVITED