

Topology Seminar

Arpon Raksit

of MIT will be speaking on

$\mathrm{THH}(\mathbb{Z})$ and the image of J

on September 30 at 4:30 in
MIT Room 2-131

Topological Hochschild homology (THH) is an invariant of rings closely related to algebraic K-theory. This talk will be about a new description of $\mathrm{THH}(\mathbb{Z})$ after completion at an odd prime, where \mathbb{Z} denotes the ring of integers; the description is in terms of the image of J spectrum, a classical object in algebraic topology. I will also discuss how this reframes earlier work on this object and a new consequence for $K(1)$ -localized algebraic K-theory. This is based on joint work with Sanath Devalapurkar.

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