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Talk at Algebraic Topology group

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## **Algebraic $K$ -theory of $THH(Fp)$**

**Abstract:** In this work, we study  $THH(Fp)$  from various perspectives. We start with a new identification of  $THH(Fp)$  as an  $E_2$ -algebra. Following this, we compute the  $K$ -theory of  $THH(Fp)$ .

The first part of my talk is going to consist of an introduction to the Nikolaus Scholze approach to trace methods. In the second part, I will introduce our results and the tools we develop to study the topological Hochschild homology of graded ring spectra.

This is a joint work with Tasos Moulinos.