

# Topology Seminar

**Arpon Raksit**

of MIT will be speaking on

## Canonical lifts and spectral algebraic geometry

on November 15 at 4:30 in  
MIT Room 2-131 (in person only)

Let  $X$  be an elliptic curve over a perfect field  $k$  of positive characteristic. Serre–Tate studied the deformation theory of such  $X$ , and one of their discoveries was that when  $X$  is ordinary, it admits a canonical lifting to the ring of Witt vectors  $W(k)$  (with some special features). In this talk, I'll discuss a connection between this phenomenon and properties of the moduli of elliptic curves in spectral algebraic geometry introduced by Lurie.

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