Topology Seminar

Andrew Senger

of Harvard University will be speaking on

On the K-theory of $\mathbb{Z}/p^n$

on March 18 at 4:30 in
MIT Room 2-131

In this talk, I will explain how to compute the mod $(p, v_1^{p^n})$ algebraic K-theory of $\mathbb{Z}/p^{n+2}$ for $n \geq 0$. A key role is played by a new crystallinity result for syntomic cohomology: the mod $(p, v_1^{p^n})$ syntomic cohomology of R only depends on R/p^{n+2}. Our proof depends crucially on Drinfeld and Bhatt–Lurie's stacky approach to syntomic cohomology. This is joint work with Jeremy Hahn and Ishan Levy.