

# Topology Seminar

**Dustin Clausen**

of MIT will be speaking on

## Arithmetic duality in algebraic K-theory

on March 11 at 4:30 in  
MIT Room 2-131

We will discuss an analog in algebraic K-theory of the Poitou-Tate global duality in Galois cohomology. A key point is that the use of algebraic K-theory instead of Galois cohomology allows to give a direct and pictorial construction of the fundamental class which is at the base of these dualities. It also allows to connect this arithmetic theory with some classical and modern work in homotopy theory, such as Quillen's on the J-homomorphism and Rezk's on logarithmic cohomology operations.