Topology Seminar

Paul Goerss

of Northwestern University will be speaking on

Resolutions and duality in $K(2)$-local homotopy theory

on April 27 at 4:30 in
MIT Room 2-131

The chromatic view of stable homotopy theory assembles a finite spectrum from its $K(n)$-localizations, focusing our attention on the $K(n)$-local category. This category has a number of interrelated dualities, which together go under the name of Gross-Hopkins duality. I'd like to explore this in the case $n = 2$ using the topological resolutions developed with Henn, Mahowald, Rezk, and others. In particular, I'd like to explain how there is an elegant inevitability to calculations long regarded as impenetrable.