Topology Seminar

Sam Isaacson

of Harvard University will be speaking on

Cubical homotopy theory and monoidal model categories

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

Let C be a model category. In a 2001 paper, Dan Dugger showed that if C is combinatorial, it can be realized as a left Bousfield localization of simplicial presheaves on some small site. I'll describe a variation of this theorem: by replacing simplicial sets with a cubical model for the homotopy category, we can produce a presentation for C when C is symmetric monoidal that retains the monoidal structure of C as the Day convolution product.