

# Topology Seminar

**Jeremy Hahn**

of MIT will be speaking on

## The spectrum of units of a height 2 theory

on September 17 at 4:30 in  
MIT Room 2-131

The space  $BSU$  admits two infinite loop space structures, one arising from addition of vector bundles and the other from tensor product. A surprising fact, due to Adams and Priddy, is that these two infinite loop spaces become equivalent after  $p$ -completion. I will explain how the Adams-Priddy theorem allows for an identification of  $sl_1(kU_p)$ , the spectrum of units of  $p$ -complete complex  $K$ -theory. I will then describe work, joint with Andrew Senger, that attempts to similarly understand the spectrum of units of the 2-completion of  $tmf_1(3)$ . Our computations seem suggestive of broader phenomena, and I hope to end with several open questions.

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