Wayne State University
Mathematics Department Topology Seminar

Formal group laws and multiplicative ring spectra

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Abstract

I’ll discuss several aspects of trying to determine the interaction between two topics: the chromatic point of view on stable homotopy theory, and “strict” multiplicative structures. In some instances we have good answers; in many more we have incomplete answers; and in some places we know almost nothing. In particular, I’ll discuss Lubin-Tate spectra, the Brown-Peterson spectrum and truncated versions of it, and orientation theory.