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Synthetic spectra talk

Abstract: In this talk, I will give an introduction to synthetic spectra as developed in work of Pstrągowski. I will define and motivate synthetic spectra based on an Adams-type homology theory by comparing it to Hovey's construction of the homotopy theory of comodules over Hopf algebroids. Further, I will illustrate how synthetic spectra fit into the framework of deformations of homotopy theories as described in work by Burklund, Hahn, and Senger. The goal of this talk is to introduce the fairly recent concept of synthetic spectra, motivate their construction, and relate them to other instances of deformations as in previous work by Gheorghe, Isaksen, Wang, and Xu. The main reference is Pstrągowski's paper *Synthetic spectra and the cellular motivic category*.