

Synthetic spectra

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An important ingredient in many recent advances in stable homotopy theory is the discovery that many spectral sequences can be encoded by an appropriate deformation of infinity-categories. In the case of the Adams spectral sequence, the corresponding deformation is known as the category of synthetic spectra, and it turns out to be closely related to motivic homotopy theory.

This course will be an introduction to the theory of synthetic spectra as well as some of their applications.