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Constructible sheaves of spectra.

In this talk, I will present the theory of Kan's combinatorial spectra and their sheaves. I show that the category of Kan spectral sheaves has co-localization, which allows constructions analogous to those in abelian sheaf theory, from sheafification to the six-functor formalism, on the levels of both the strict and derived categories. I will also explore the notions of E_∞ -ring spectra and E_∞ -ring spectral sheaves in the context of simplicial Kan spectral sheaves. Some of this is joint work with Igor Kriz and Aleš Pultr. (Received June 12, 2018)