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Descent for ring spectra and applications.

In derived algebraic geometry, there is a class of morphisms of ring spectra for which the conclusion of Grothendieck's faithfully flat descent theorem holds but which do not superficially (e.g., at the level of homotopy groups) appear to be faithfully flat. I will discuss this class of morphisms and some examples from stable homotopy theory and modular representation theory, and give an application to constructing a derived version of the étale fundamental group. (Received September 17, 2014)