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Title: A deformation of Borel-complete equivariant homotopy theory

Abstract: Synthetic homotopy theory is a general framework for constructing interesting contexts for doing homotopy theory: using the data of a spectral sequence in some category \mathcal{C} , one can construct another category which can be viewed as a deformation of \mathcal{C} . The motivating example is the fact, due to Gheorghe-Wang-Xu, that (p -complete, cellular) \mathbb{C} -motivic homotopy theory can be described as a deformation of the ordinary stable homotopy category, simply using the data of the Adams-Novikov spectral sequence. Burklund, Hahn, and Senger used this framework to study \mathbb{R} -motivic homotopy theory as a deformation of \mathbb{C}_2 -equivariant homotopy theory. In joint work with Gabe Angelini-Knoll, Mark Behrens, and Hana Jia Kong, we give (up to completion) a different synthetic description of this deformation, which generalizes to give a deformation of (Borel-complete) G -equivariant homotopy theory for other groups G .