

Synthetic fibered $(\infty, 1)$ -category theory

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In 2017, Riehl and Shulman introduced a variant of homotopy type theory in order to reason synthetically about $(\infty, 1)$ -categories. These are defined as type-theoretic versions of (complete) Segal spaces, which is in line with the intended semantics in simplicial spaces. After motivating these basic notions, the talk provides a conceptual overview of synthetic fibered $(\infty, 1)$ -category theory in this setting, notably including co-/cartesian fibrations. This is joint work with Ulrik Buchholtz.