1135-18-2052   **Emily Riehl*** (`eriehl@math.jhu.edu`), Department of Mathematics, Johns Hopkins University, Baltimore, MD 21218, and **Evan Cavallo** and **Christian Sattler**. *On the directed univalence axiom.* Preliminary report.

The bisimplicial sets model of homotopy type theory has, in addition to an interval type I, a directed interval type 2, which respectively parametrize "paths" and "arrows" inside a general type. Sattler's *directed univalence axiom* asserts that arrows in the universe are equivalent to spans of types. This talk will contain a progress report on (i) efforts to verify the directed univalence axiom in the bisimplicial sets model and (ii) explorations of its consequences in the type theory for synthetic ∞-categories introduced by Riehl and Shulman. (Received September 25, 2017)