

# Logic

Models of constructive set theory in homotopy type theory

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Modelling the hierarchy of sets in Martin-Löf's type theory goes back to Aczel (1977). This construction is usually presented as a setoid — a type with an equivalence relation on it. The underlying type of Aczel's construction is a type of wellfounded trees (known as a W-type). In homotopy type theory it is more natural to search for a type for which the identity type it self is the correct notion of equality of sets. In this talk I will present an alternative to the way this is achieved in the book *Homotopy Type Theory* and discuss to which extent axioms of constructive set theory applies to this new model.

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