

INFINITY GROUPOIDS IN LEXTENSIVE CATEGORIES

KAROL SZUMILO

I will discuss a construction of a new model structure on simplicial objects in a countably lextensive category (i.e., a category with well behaved finite limits and countable coproducts). This builds on previous work on a constructive model structure on simplicial sets, originally motivated by modelling Homotopy Type Theory, but now applicable in a much wider context. This is joint work with Nicola Gambino, Simon Henry and Christian Sattler.