

Další seminář z algebry se koná 9.5.2019 od 13.00 v posluchárně M5.

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Simplicial models for $(\infty,2)$ -categories

Abstrakt:

This talk will revolve around two simplicial models for $(\infty,2)$ -categories, namely Lurie's ∞ -bicatagories and Verity's ∞ -complicial model. After a brief overview and some preliminaries on the ∞ -category of scaled and stratified simplicial sets, we will delve right into the construction of a model structure for "weak" ∞ -bicatagories, which we prove to be equivalent to the one for saturated 2-trivial ∞ -complicial sets (i.e. the complicial version of $(\infty,2)$ -categories). We then describe Lurie's model structure for ∞ -bicatagories and a Quillen equivalence with another model, i.e. that of categories enriched over marked simplicial sets, which shows ∞ -bicatagories are a model for $(\infty,2)$ -categories in the sense of Barwick-Schommer Pries. We conclude the talk with a conjecture on the equivalence between our model structure and Lurie's one, and its corollaries.