

Další seminář z algebry se koná 21.2.2019 od 13.00 v posluchárně M5.

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Cartesian-Enriched Quasi-categories, the Isofibration theorem and Yoneda's lemma

Abstrakt:

In Joyal's theory of quasi-categories, there is a very nice characterization of the fibrant objects and the fibrations between them as the inner-fibrant objects and isomorphism-lifting inner fibrations respectively. Given a nice-enough Reedy category C , we construct a horizontal model structure on the category of presheaves of sets on $\Theta[C]$ that shares a variant of this characterization. Moreover, given a Cartesian presentation with respect to simplicial presheaves on C , we show that the horizontal model structure $\text{Psh}(\Theta[C])$ admits a left-Bousfield localization that agrees with Rezk's model structure on $\text{sPsh}(\Theta[C])$. It will follow by general facts about left-Bousfield localization that the model fibrations between the local objects are exactly the horizontal isofibrations. We will also briefly describe the generalization of the homotopy-coherent nerve and realization for these enriched Quasi-categories and sketch a proof of Yoneda's lemma in this setting, if time permits.