THOMAS NIKOLAUS, Universitaet Regensburg

Additive ∞-categories and canonical monoidal structures II

We continue the discussion started in the talk of Moritz Groth. Given a presentable, symmetric monoidal ∞-category C, the ∞-category of E_∞-groups in C admits a canonical and unique tensor product. This generalizes the tensor product of abelian groups, and there are similar results for monoids and other contexts. We conclude by indicating applications to multiplicative infinite loop space theory and algebraic K-theory (any maybe equivariant homotopy theory if time permits).

Our main tools are stability results for algebraic structures under basechange and the theory of smashing localizations applied to the ∞-category of presentable ∞-categories.