Joachim Kock [*]

Universitat Autònoma de Barcelona

Infinity-operads as polynomial monads

I'll present a new model for ∞-operads, namely as analytic monads. In the ∞-world (unlike what happens in the classical case), analytic functors are polynomial, and therefore the theory can be developed within the setting of polynomial functors. I'll talk about some of the features of this theory, and explain a nerve theorem, which implies that the ∞-category of analytic monads is equivalent to the ∞-category of dendroidal Segal spaces of Cisinski and Moerdijk, one of the known equivalent models for ∞-operads.

REFERENCES:

[1] David Gepner, Rune Haugseng, Joachim Kock. ∞-Operads as Analytic Monads. Preprint, `http://arxiv.org/abs/1712.06469`.

---

[*]Joint work with David Gepner and Rune Haugseng.