

Higher operad algebras as enriched categories

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(This is joint work with Michael Batanin)

In the combinatorial approach to defining and working with higher categorical structures, one uses globular operads to say what the structures are in one go. However in the simplicial approaches to higher category theory, one proceeds inductively following the idea that a weak $(n+1)$ -category is something like a category enriched in weak n -categories. In this talk the inductive content hidden within the globular operadic approach will be revealed. Doing this involves a rather fascinating interplay between the theory of parametric right adjoint monads and extensive categories.