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„Parametrized and equivariant higher algebra“

Abstract:
In this talk, I will explain how to generalize Lurie's theory of ∞-operads so as to effectively work with the novel multiplicative and operadic structures that arise in the context of equivariant homotopy theory for a finite group G. Roughly speaking, such structures arise because one may consider tensor products indexed by finite sets U with a non-trivial G-action, and correspondingly our basic idea is to incorporate operations of any U-arity into the foundations of the theory of equivariant ∞-operads.
More generally, one has a robust theory of parametrized ∞-operads over any base category that resembles the orbit category. This is joint work with Denis Nardin.