

## Francesca Pratali : Dendroidal $\infty$ -operads

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The dendroidal formalism offers a powerful approach to defining operads as specific presheaves on a tree-based category. This combinatorial framework enables the definition of  $\infty$ -operads, wherein composition is determined up to homotopy via presheaves that satisfy a weak dendroidal inner Kan condition. Notably, the homotopy theory of  $\infty$ -operads has been shown to be equivalent, in both Quillen's sense and Lurie's  $\infty$ -categorical sense, to the theories of topological and simplicial operads.

In this talk we will review these concepts and present some open questions in enriched settings.