

## **talk 2: A universal characterization of the curved homotopy Lie and associative operads**

*Monday 31 March 2025 11:00 (50 minutes)*

The A-infinity and L-infinity operads are fundamental higher structures playing key roles in mathematics and physics, ranging from deformation theory to string field theory. In all contexts, the procedure of ‘twisting an algebra by a Maurer-Cartan element’ is fundamental. In this talk we will give universal characterizations of these structures (as initial objects in appropriate categories of decorated operads) and a universal characterization of the twisting procedure (in terms of the adjoint functor to a forgetful map). This is joint work with Guillaume Leplante-Anfossi and Adrian Petr.

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