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Noncommutative localisation of algebras and modules

Abstract

The localisation of a dg algebra (or more generally, a dg category) can be seen to be, in a certain precise sense, equivalent to the Bousfield localisation of its category of dg modules. In this talk I will explain what this means and show how this general abstract result has a range of concrete applications including the group completion theorem, characteristic classes of A-infinity algebras and a derived Riemann–Hilbert correspondence. This is joint work in progress with Joe Chuang and Andrey Lazarev.