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Linearization and Koszul Modules.

This is joint work with Roberto Martinez Villa. In our work on the equivalence between the stable homotopy category of finite modules over a finite-dimensional Koszul algebra and the category of tails over its Yoneda algebra a fundamental role is played by a linearization functor, introduced earlier by Martinez Villa. The goal of this lecture is to explain the construction of this functor and show what linearization does to Koszul modules. The latter is a critical tool in the proof of the equivalence. I will also give a concise overview of all the techniques used in our approach.