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Some examples of PBW deformations

In the theory of Nichols algebras many examples of finite-dimensional algebras appear, which currently are mainly studied using Groebner basis techniques. In this talk an alternative approach via PBW deformations is discussed. Although a good understanding of PBW deformations of Koszul algebras is available, the Nichols algebra examples typically do not fall into this theory. Interestingly, standard tools from non-commutative algebra seem to be often very appropriate to study these deformations. The examples under investigation appeared already in work of García Iglesias and Vay. The subject of the talk is based on a joint work with Leandro Vendramin.