Generalized quantum groups and Gelfand-Kirillov conjecture

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Abstract:
In this talk (based on joint work with Arkady Berenstein) I will discuss a uniform generalization of enveloping algebras of Lie algebras and superalgebras and their quantum versions as certain Hopf algebras generated by skew-primitive elements. I will also discuss the main motivation for this setup, namely the appropriate generalization of Gelfand-Kirillov conjecture to the skew fields of fractions of such Hopf algebras and their suitable quotients.