

News from easy and non-easy quantum groups

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Since its introduction by Banica and Speicher in 2009, easy quantum groups have always been related with free probability theory, for instance via their role as distributional symmetries (de Finetti theorems) or as examples of noncommutative probability spaces. In this talk, I will survey recent developments and quests in the classification and study of easy as well as non-easy quantum groups. This includes unitary half-liberations (joint with Alexander Mang), intertwiner spaces of quantum group subrepresentations and examples/classification of non-easy quantum groups (joint with Daniel Gromada resp. Laura Maassen); moreover, I will mention recent work on quantum automorphism groups of finite graphs (joint with Simon Schmidt).