

CLASSIFICATION OF QUANTUM GROUPS VIA GALOIS COHOMOLOGY

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Abstract: Quantum groups such that their classical limit is a simple finite dimensional Lie algebra over complex numbers can be classified in terms of Galois cohomology related to the so called admissible triples. An admissible triple is the following set:

$$\{\Gamma_1, \Gamma_2, \tau\}$$

where $\Gamma_{1,2}$ are sub-diagrams of the Dynkin diagram and $\tau : \Gamma_1 \rightarrow \Gamma_2$ is an isomorphism satisfying certain conditions.