

THE CLASSIFICATION OF NICHOLS ALGEBRAS

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Nichols algebras appear in several branches of mathematics going from Hopf algebras and quantum groups, to Schubert calculus and conformal field theories. In this talk we review the main problems related to Nichols algebras and we discuss some classification theorems. The talk is mainly based on joint works with I. Heckenberger.

Joint work with István Heckenberger (Philipps-Universität, Marburg, Germany).