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*On the classification of low dimensional Hopf algebras*

The general classification of finite dimensional Hopf algebras over a field of characteristic 0 is a difficult open problem. In the study of Hopf algebras of low dimension which are neither cosemisimple nor pointed, one approach is to study the simple coalgebras in the coradical  $H_0$  of the Hopf algebra  $H$  and the  $H_0$ -bicomodules  $P_n$ . Note that this amounts to studying the irreducible representations of the dual Hopf algebra  $H^*$ . We outline some older and newer results for this problem.