MULTIPLIER HOPF ALGEBRAS Piotr Soltan

University of Warsaw

Based on the intuition from the theory of compact quantum groups I will introduce the concept of a multiplier Hopf algebra. I will describe some elements of the structure of such an object and then outline the duality theory for multiplier Hopf algebras with invariant functionals. I hope to be able to present some familiar as well as exotic examples of multiplier Hopf algebras.