A CORRESPONDENCE BETWEEN HOMOGENEOUS AND GALOIS COACTIONS OF HOPF ALGEBRAS

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Abstract: For any Hopf algebra H we have the notion of an H-comodule algebra, also called H-coaction. Homogeneous coactions are unital coactions with a trivial coinvariant subalgebra. We call a coaction a Galois coaction if the Galois map is bijective. There is also the notion of H-equivariant Morita equivalence on the class of H-coactions. In this talk, we will explain a one-to-one correspondence between, on the one hand, the equivariant Morita equivalence classes of a certain subclass of homogeneous H-coactions, and on the other hand the isomorphism classes of a certain class of Galois coactions. This is joint work with K. De Commer.