

Cohomology of twisted tensor product algebras over algebraic integers

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Many Hopf algebras and quantum groups of interest are twisted tensor products of two or more subalgebras, and can be defined over rings of algebraic integers. In this talk, we will construct resolutions as twisted tensor products and explain conditions under which they can be used to describe cohomology in terms of that of the constituent subalgebras. The Taft algebras will appear throughout the talk to illustrate constructions and results.