

1132-16-251

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*Abelian extensions of semisimple Hopf algebras of dimension  $2^m$ .*

In this talk we will discuss the cohomological description of abelian extensions which arise in the process of classifying semisimple Hopf algebras of dimension  $2^m$  with large abelian group of grouplike elements. Our ability to describe all such extensions heavily depends on the structure of this group, in particular, on the number of its order 2 automorphisms and on the structure of its Schur multiplier. (Received July 24, 2017)