

1135-16-2917

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60614. *On classification of semisimple Hopf algebras of dimension 32*. Preliminary report.

In this talk we will discuss the classification of semisimple Hopf algebras of dimension 32 with commutative Hopf subalgebra of index 2. These Hopf algebras can be obtained as abelian extensions of a group algebra of dimension 2 and a dual of a group algebra of dimension 16. We will also consider categorical invariants of these Hopf algebras, such as their Grothendieck ring structures and their (higher) Frobenius-Schur indicators. (Received September 26, 2017)