

1106-17-2361      **Yevgenia Kashina\*** ([ykashina@depaul.edu](mailto:ykashina@depaul.edu)), Department of Mathematical Sciences, DePaul University, Chicago, IL 60614. *On classification of semisimple Hopf algebras.*

In this talk we will discuss classification of semisimple Hopf algebras of dimension 32 with a commutative Hopf subalgebra  $K$  of dimension 16 over an algebraically closed field  $k$  of characteristic 0. We will concentrate on the case when  $K$  is not cocommutative, that is,  $K$  is isomorphic to  $k^G$  for some nonabelian group  $G$  of order 16. There are exactly nine nonisomorphic nonabelian groups of order 16. For some of the cases we will be able to show that, together with  $K$ , the Hopf algebra contains another Hopf subalgebra of dimension 16, which is both commutative and cocommutative. (Received September 16, 2014)