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**Yevgenia Kashina\*** ([ykashina@depaul.edu](mailto:ykashina@depaul.edu)), Department of Mathematical Sciences, DePaul University, Chicago, IL. *On classification of semisimple Hopf algebras of dimension 32.*

In this talk we will first describe up to equivalence all semisimple Hopf algebras of dimension  $2^m$  with a particular group of grouplike elements (the base field is assumed to be algebraically closed of characteristic 0). We will then classify all such Hopf algebras of dimension 32 up to isomorphism. In particular, we will show that all of them have different representation categories. (Received August 11, 2015)