1039-16-150Yevgenia Kashina\* (ykashina@condor.depaul.edu), Department of Mathematical Sciences,<br/>DePaul University, Chicago, IL 60614. Semisimple Hopf algebras of dimension  $p^n$  which fit into<br/>cocentral abelian extensions. Preliminary report.

In this talk we will consider semisimple Hopf algebras of dimension  $p^n$  which fit into cocentral abelian extension  $K \hookrightarrow H \twoheadrightarrow F$  where  $K = (kG)^*$  and F = kL for some group algebras G and L. Then H equals a bicrossed product  $K \#_{\sigma}^{\tau} F$ , with an action  $\rightharpoonup$ , trivial coaction, a cocycle  $\sigma$ , and a dual cocycle  $\tau$ . We further assume that L is cyclic, which implies that H is equivalent to an extension with a trivial cocycle  $\sigma$ . For a fixed action, we consider the map from the group of extensions of F by K to the Schur multiplier of G which gives a way to describe all dual cocycles for certain concrete extensions. (Received March 10, 2008)