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Leonid Krop* (leonard.krop@gmail.com). *Recent advances in classification of finite dimensional semisimple Hopf algebras.*

We present a mechanism for classification of isomorphism types of non-trivial (i.e. neither commutative, nor cocommutative) semisimple Hopf algebras H subject to the condition that the group of grouplikes $G(H)$ is abelian of prime index p which is the smallest prime divisor of $|G(H)|$. We apply the theory to classification of Hopf algebras of this kind of dimension p^4 for any prime p . The ground field is algebraically closed of characteristic 0. (Received August 11, 2015)