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60614. *Biproducts and Extensions: Examples*. Preliminary report.

In this talk, we will discuss the biproducts of Yetter-Drinfel'd Hopf algebras constructed in the previous talk from the point of view of extensions. They are extensions of a nontrivial 16-dimensional Hopf algebra by a group of order 2. In the talk, we will explain which 16-dimensional Hopf algebra from the known classification appears and discuss whether these biproducts can also be constructed as abelian extensions. The talk is based on joint work with Yorck Sommerhäuser. (Received January 29, 2019)