1112-16-678 **Jesse Levitt*** (jlevit3@lsu.edu), 303 Lockett Hall, Baton Rouge, LA 70803, and **Milen Yakimov**. *Connected Hopf Algebras as Deformations of Enveloping Algebras via Drinfeld's Quantization of Triangular R-matrices.*

In 1983 Drinfeld constructed quantizations of all triangular R-matrices. They produce non-cocommutative Hopf algebra structures on completions of universal enveloping algebras. When the quantizations are finite we obtain actual connected Hopf algebras of finite GK-dimension. This has previously unexplored ramifications for the classification problem for Hopf algebras of finite GK-dimension, which has attracted a lot of interest in recent years. Having just advanced to the point where all such Hopf algebras of GK-dimension 4 were able to be classified by Wang, Zhang and Zhuang. We describe necessary and sufficient conditions for deformed universal enveloping algebras such as those arising from this construction to be connected Hopf Algebras and show how previous classifications follow from the Drinfeld construction. (Received August 11, 2015)