

1067-00-465

Shlomo Gelaki and **Deepak Naidu*** (dnaidu@math.tamu.edu), Department of Mathematics,
College Station, TX 77843, and **Dmitri Nikshych**. *Drinfeld centers of graded fusion categories*.

The Drinfeld Center is an important construction in the theory of tensor categories. It is a way of producing a braided tensor category from a (not necessarily braided) tensor category. In this talk, I will describe how the structure of the Drinfeld center of a fusion category can be understood in terms of a smaller and more transparent category. As an application, I will give a criterion for a fusion category to be group-theoretical and apply it to the Tambara-Yamagami categories to produce non group-theoretical semisimple Hopf algebras, extending a construction of Nikshych. (Received September 05, 2010)