

1119-18-256

Julia Plavnik and **Henry Tucker*** (htucker@usc.edu), USC Dept. of Mathematics, 3620 S. Vermont Ave. KAP 104, Los Angeles, CA 90089. *Non-degenerate quotients of pivotal tensor categories*. Preliminary report.

Barrett and Westbury showed that the non-degenerate quotient of a spherical tensor category, i.e. the quotient by the tensor ideal of negligible morphisms, yields a semisimple tensor category. We consider here the case of pivotal tensor categories whose pivotal structure is not necessarily spherical (that is, where the left and right categorical quantum dimensions do not necessarily agree) with the goal of finding conditions that will produce semisimple non-degenerate quotients. In particular, we consider the categories of representations of pivotal quasi-Hopf algebras. (Received February 16, 2016)