

1125-18-1812 **Daniel Creamer*** (dan1010c@math.tamu.edu). *A Computational Approach to Classifying Rank 6 Modular Tensor Categories*. Preliminary report.

I attempt to classify all rank 6 Modular Tensor Categories using the admissibility criteria given in papers of Bruillard, Ng, Rowell, and Wang [BNRW]. Specifically, I use Groebner bases to help classify the possible modular data. From there I use the methods developed by [BNRW] to classify explicit categories. (Received September 19, 2016)