

1145-18-2038

**Qing Zhang\*** ([zhangqing@math.tamu.edu](mailto:zhangqing@math.tamu.edu)). *Classification of super-modular categories by rank.*

A super-modular category is a unitary pre-modular category with Müger center equivalent to the symmetric monoidal category of super-vector spaces. Super-modular categories are important for a variety of reasons. For example, any unitary pre-modular category is the equivariantization of a modular or super-modular category. Physically, super-modular categories are related to the study of fermionic topological phases of matter. In this talk, we will discuss the classification of super-modular categories of rank 8. This is joint work with P. Bruillard, J. Plavnik and E. Rowell. (Received September 24, 2018)