

1128-16-263

Siu-Hung Ng* (rng@math.lsu.edu). *On some properties modular categories of odd dimension.*

A classical theorem of Burnside asserts that a finite group G has no nontrivial self-dual irreducible complex representation if and only if G has an odd order. This result has been recently generalized to integral fusion categories. However, there exists nontrivial self-dual simple object in a non-integral fusion category of odd dimension. In this talk, we will discuss a relation satisfied by the self-dual simple objects of a modular tensor category of odd dimension in terms of their Frobenius-Schur indicators. (Received February 28, 2017)