1145-18-2208   **Siu-Hung Ng*** (`rng@math.lsu.edu`). *On Higer Gauss Sums of Modular Categories.*

Modular tensor categories are categorical generalizations of finite abelian groups with nondegenerate quadratic forms. The notion of Gauss sum can be defined analogously for any modular tensor category. In this talk, we will discuss some interesting arithmetic properties of the higher Gauss sums, and their relations with the Frobenius-Schur indicators. This is a joint work with Andrew Schopieray and Yilong Wang. (Received September 25, 2018)