On higher Gauss sums of modular categories

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Modular tensor categories are categorical generalizations of nondegenerate quadratic forms, and the notion of Gauss sums can be analogously defined. In this talk, we will discuss the arithmetic properties of the higher Gauss sums and the Witt invariance of the associated higher central charges. This talk is based on a joint work with Andrew Schopieray and Siu-Hung Ng.