

---

**SIU-HUNG NG**, Iowa State and Cornell University  
*Cauchy's Theorem for Spherical Fusion Categories*

Cauchy's theorem for finite groups asserts that the exponent and the order of a finite group have the same prime factors. The theorem has been generalized to semisimple Hopf algebras as well as quasi-Hopf algebras, in which the dimensions of these algebras replace the role of the orders of finite groups. In this talk, we will discuss a generalization of Cauchy's theorem for spherical fusion categories and its implication to finiteness conjecture of modular categories. This is joint work with P. Bruillard, E. Rowell and Z. Wang.