

Math Physics Seminar - Giovanni Mora, University of California-Los Angeles, SChM 316

Location: SCHM 316

Time: Wed, April 2, 1:30 PM - 2:30 PM

Title: Braided Zestings of Verlinde Modular Categories and Their Modular Data

Abstract: In this talk, we will discuss the procedure of “zesting” in braided fusion categories, a technique that enables the construction of new modular categories from an existing modular category with non-trivial invertible objects. We will present a classification and construction of all possible braided zesting data for modular categories associated with quantum groups at roots of unity. Additionally, we will present the formulas that we have found, based on the root system associated with the quantum group, for the modular data of these new modular categories. This talk is a joint work with Eric Rowell and Cesar Galindo and is based on our paper “Braided Zestings of Verlinde Modular Categories and Their Modular Data.”