

Integral Combinations of Characters from 2D TQFTs

Rajath Radhakrishnan

International Centre for Theoretical Physics

In this talk, I will discuss 2D Dijkgraaf-Witten theories and another class of 2D TQFTs defined using the representation ring of a finite group. These TQFTs form a simple arena to explore properties of representations of a finite group. I will show that the partition functions of these TQFTs imply the integrality of certain combinations of characters. This talk is based on joint work with Adrian Padellaro and Sanjaye Ramgoolam.