
PETER CROOKS, Utah State University

Topological quantum field theories in the Moore-Tachikawa category

I will briefly review Moore and Tachikawa's conjectural topological quantum field theory (TQFT), as well as the representation theory underlying its formulation. This will lead to an outline of recent, affirmative evidence for the conjecture. I will also detail a systematic association of TQFTs to Lie-theoretic data. A distinguished role will be played by the partial Grothendieck-Springer resolutions and their Poisson-geometric relatives. This represents joint work with Maxence Mayrand.