



Speaker: Donald Youmans
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Tuesday, January 23, 2018

2:30 PM

258 Hurley Hall

Title: 2d abelian BF theory as a superconformal field theory

Abstract:

In this talk, we will study 2d abelian BF theory in Lorenz gauge from the viewpoint of a superconformal field theory. We show that the Lorenz gauged 2d abelian BF theory on the plane coincides with Witten's B-model with odd target space and how one recovers the zero superpotential Landau-Ginzburg model by a topological "untwist". As an outlook, we intend to discuss briefly possible deformations of the theory.