Sam Raskin

Quantum duality and Morita theory for chiral algebras

Abstract

We will discuss how dualities of quantum field theories can be understood as analogous to Morita equivalences for algebras of various types. We will focus on understanding 3d mirror symmetry via chiral algebras. Finally, we will discuss one recent example (joint with Justin Hilburn) that can be completely understood mathematically: abelian 3d mirror symmetry.