

Topology, Algebraic Geometry, & Dynamics Seminar

Topological Field Theory and Homological Algebra

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I'll explain a technique by which we can mathematically model classical and quantum field theories called the *BV formalism*, with a particular focus on a large class of examples of "topological" nature. Along the way I'll talk about how these topological examples are connected to the theory of supersymmetry, and I'll discuss the problem of "globalizing" a quantum field theory: taking a field theory defined on \mathbb{R}^n and making sense of it on more general curved n -manifolds.

Date: **Friday, December 2, 2022**

Time: **1:30-2:30 pm**

Place: **Exploratory Hall, Room 4208**

For special accommodations, please contact David Carchedi via email at dcarched@gmu.edu.