

Mathematical Physics seminar

speaker: Eugene Rabinovich (Math, Notre Dame)

Thursday, Nov 4, 2021

10:30 am-11:30 am

in person in UNIV 319

and on Zoom

<https://purdue-edu.zoom.us/j/>

Meeting ID: 953 1862 5523

Passcode: 184222

Title: Factorization Algebras for Bulk-Boundary Systems

Abstract: A factorization algebra is a cosheaf-like object that is meant to model the observables of a quantum field theory. Indeed, Costello and Gwilliam have shown how to construct a factorization algebra of observables for any perturbative quantum gauge theory. In my dissertation, I have extended their results to bulk-boundary systems on manifolds with boundary. In this talk, I will provide an introduction to factorization algebras and a survey of some of the low-dimensional bulk-boundary systems to which the techniques of my dissertation apply.