

GRADUATE STUDENT SEMINAR

Guest Speaker: Jeremy Mann

University of Notre Dame

Date: Monday, November 14, 2016

Time: 4:00 PM

Location: 129 Hayes-Healy Hall

Lecture Title:

The Weyl Algebra, Quantum Mechanics, and Factorization Algebras

Abstract

In this talk, we will show how the Weyl Algebra encodes the data of the observables of the quantum field theory associated to the one dimensional harmonic oscillator. In order to establish this equivalence, we will articulate these objects in the language of factorization algebras. No knowledge of physics will be assumed.