

GRADUATE STUDENT SEMINAR

Guest Speaker: Eric Wawerczyk
University of Notre Dame

Date: Monday, October 8, 2018

Time: 4:00 PM

Location: 231 Hayes-Healy Hall



Lecture Title:
The Fifth Arithmetic Operation

Abstract

Martin Eichler is attributed to saying: “There are five elementary operations in Number Theory: addition, subtraction, multiplication, division, and modular forms.” The point of this talk is to demonstrate as many of the amazing arithmetic formulas which can be derived using these five “basic” operations as we can. We will be presenting amazing proofs by Euler, Riemann, Ramanujan, and many others as well as giving some idea as to what one means by “modular forms”.