

Colloquium

University of Notre Dame
Department of Mathematics

Speaker: Matthew Harrison-
Trainor

Victoria University of Wellington

Will give a lecture entitled
Measuring the Complexity of Structures, Properties, and
Classes

Date: Tuesday, December 15, 2020

Time: 3:00 PM

Location: Zoom

Zoom URL: [https://notredame.zoom.us/j/92323323381?
pwd=ejFYV3I0UStiTIBiTGsrOTF1OXNEdz09](https://notredame.zoom.us/j/92323323381?pwd=ejFYV3I0UStiTIBiTGsrOTF1OXNEdz09)



Matthew Harrison-Trainor - Victoria University of Wellington

Abstract:

In mathematics one studies various structures, properties of these structures, and classes of structures. Intuitively we know that some structures are simple while others are much more complicated; and similarly for characterizations and classifications. I will explain a few ways of formally measuring complexity and give some applications to various areas of mathematics. A main theme throughout will be connections between syntactic complexity and computational/topological complexity.