## JAN ARULSEELAN, McMaster University

Computability in Continuous Logic with Applications to Operator Algebras

We will discuss computable axiomatizations, computable presentations and their utility. We will sample some of the key theoretical hurdles to a working computable model theory of non-tracial von Neumann algebras and how they were overcome. We will then consider some directions for future work. Joint work with Isaac Goldbring, Bradd Hart, and Thomas Sinclair.