

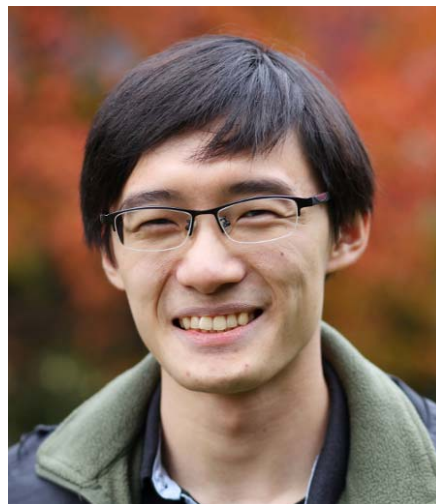
COMPUTABILITY SEMINAR

Guest Speaker: Jun Le Goh
Cornell University

Date: Monday, February 4, 2019

Time: 3:00 PM

Location: 258 Hurley Hall



Lecture Title:

A theorem of Halin and hyperarithmetic analysis

Abstract

In 1965, Halin showed that if a graph contains k many disjoint rays for every k , then it contains infinitely many disjoint rays. We show that a natural formalization of Halin's theorem (which we call IRT) is closely connected to the notion of hyperarithmetic reduction, namely, IRT is a theorem of hyperarithmetic analysis. We also introduce a Σ_1^1 axiom of `_finite_` choice and show how it is related to IRT.