

LOGIC SEMINAR

Guest Speaker: Jun Le Goh
Cornell University

Date: Tuesday, February 5, 2019

Time: 2:00 PM

Location: 125 Hayes-Healy Hall



Lecture Title:

The computational content of Koenig's duality theorem

Abstract

Koenig's theorem states that, in any finite bipartite graph, the number of edges in a maximum matching is equal to the number of vertices in a minimum vertex cover. The generalization of Koenig's theorem to infinite graphs is known as Koenig's duality theorem (KDT). We investigate the computational content of KDT for countable graphs. In particular, we show that it is closely connected to pseudohierarchies, which are nonstandard versions of the H-sets from hyperarithmetic theory.