Mathematics, Statistics, and Computer Science **@ UIC**

Logic Seminar

The decomposability conjecture

Andrew Marks (UCLA)

Abstract: We characterize which Borel functions are decomposable into a countable union of functions which are piecewise continuous on Π^0_n domains, assuming projective determinacy. One ingredient of our proof is a new characterization of what Borel sets are Σ^0_n complete. Another important ingredient is a theorem of Harrington that there is no projective sequence of length ω_1 of distinct Borel sets of bounded rank, assuming projective determinacy. This is joint work with Adam Day.

Tuesday, April 13 at 4:00 PM in Zoom