Speaker: Ethan McCarthy

Title: Cototal enumeration degrees and the Turing degree spectra of minimal subshifts

Abstract: A subset A of ω is cototal under enumeration reducibility if A is enumeration reducible to $2^{\omega}\backslash A$, that is, if the complement of A is total. We show that the e-degrees of cototal sets characterize the e-degrees of maximal anti-chain complements, the e-degrees of enumeration-pointed trees on $2^{<\omega}$, and the e-degrees of languages of minimal subshifts on 2^{ω}. Finally, we obtain a characterization of the Turing degree spectra of nontrivial minimal subshifts: they are the enumeration cones of cototal sets.