Speaker: Marie Nicholson

Title: Computable Categoricity, Linear Orders and Permitting

Abstract: Remmel showed that a computable linear order L is computably categorical if and only if the order type of L has only a finite number of successivities. As part of the proof, Remmel assumes that L has infinitely many successivities and constructs another computable linear order R, which is not computably isomorphic to L, and a Δ_2^0 -isomorphism f such that $f: L \to R$ is an isomorphism. Hence showing that L is not computably categorical. In this talk I will discuss the conditions under which we can use permitting arguments to construct f below certain types of Δ_2^0 degrees.