Speaker: Jonny Stephenson

Title: Computable categoricity on a cone and degrees of categoricity

Abstract: A structure *A* is said to be computably categorical on the cone above a Turing degree **d** if, for any degree $\mathbf{c} \geq \mathbf{d}$, and any two **c**-computable copies of *A*, there is a **c**-computable isomorphism between them. This condition implies that the structure *A* does not contain particularly complex structural features. Because of this niceness condition, there is a bound on how hard it is to compute an isomorphism between two computable copies of *A*. We give a structure *A* which attains this bound, as part of a more general family of structures. This is joint work with Barbara Csima.