

**Speaker:** Ahmet Cevik

**Title:** Degree spectrum properties of  $\Pi^0_1$  choice classes.

**Abstract:** We study the degree spectrum properties of  $\Pi^0_1$  choice classes. A  $\Pi^0_1$  choice class is a  $\Pi^0_1$  class in which no two members have the same Turing degree. This definition leads us to some interesting degree theoretic properties, antibasis results and innovative constructions. First we observe that no non-empty  $\Pi^0_1$  choice class is countable unless it is a singleton. We state some structural properties about the degree spectra. We then introduce choice invisible degrees, i.e. degrees for which there is no  $\Pi^0_1$  choice class containing a member of them.