

Speaker: Ryan Causey (USC)

Title: Trees, ordinal indices, and universal Banach spaces

Abstract: We discuss the use of ordinal indices in Banach space theory and the use of trees in computing ordinal indices. In particular we study the Szlenk index and several ordinal indices which measure proximity to ℓ_1 or c_0 . We discuss the notion of upper tree estimates and their application to proving the existence of universal spaces for the classes of separable Banach spaces with bounded Szlenk index.