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Hurewicz Theorem for Nagata-Assouad dimension

Abstract. I will discuss analogs of the classical Hurewicz Dimension-Lowering Theorem for both asymptotic and Nagata-Assouad dimensions. The latter one answers a question of Dranishnikov who proved jointly with G.Bell the result for asymptotic dimension. Applications to group extensions will be given. Joint work with N.Brodskiy, M.Levin, and A.Mitra.