Infinite deficiency in Menger manifolds

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Abstract: We introduce a new tool for describing Menger manifolds called μ^n-coordinate systems. Using μ^n-coordinate systems, we define the infinite deficiency for a subset of a μ^n-manifold and characterize Z-sets in terms of infinite deficiency. Moreover, we define the Δ_n-product of Menger manifolds and prove the stability theorem for the Δ_n-product.