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A Banach-Stone Theorem for Lipschitz Functions

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Recently, we have proved that the vector lattice structure of Lip(X), the family of all real Lipschitz functions on the complete metric space X, determines the Lipschitz structure of X. Easy examples show that, in general, there is no analogous result for $Lip^*(X)$, the family of all bounded real Lipschitz functions on X. In this talk we show that a Banach-Stone type theorem for $Lip^*(X)$ works in the class of complete "lenght spaces" or, more generally, complete quasi-convex spaces.

(Joint work with J. A. Jaramillo)