



Extension of isometries. On the Mazur-Ulam property for $C(K)$.

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Título: Extension of isometries. On the Mazur-Ulam property for $C(K)$. Conferenciante: María Cueto-Avellaneda (University of Granada). Abstract: A Banach space X satisfies the Mazur-Ulam property if for any Banach space Y , every surjective isometry $\Delta : S(X) \rightarrow S(Y)$ admits an extension to a surjective real linear isometry from X onto Y , where $S(X)$ and $S(Y)$ denote the unit spheres of X and Y , respectively. An equivalent reformulation tells that X satisfies the Mazur-Ulam property if the so-called Tingley's problem admits a positive solution for every surjective isometry from $S(X)$



onto the unit sphere of any Banach space Y . We shall make in this talk a brief incursion into the origin of the quoted extension problems and provide a recent state of the art of these questions. We shall also present some of the strategies normally used for solving them by studying the Mazur-Ulam property in the C^* -algebra $C(K)$ of all continuous complex-valued functions defined on a Stonean space K .

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