

國立中山大學應用數學系

學術演講

- 講者：馬玉梅 教授
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- 講題：Mazur-Ulam-Aleksandrov-Benz-Rassias
problem
- 時間：2015/9/4 (星期五)
16:30 ~ 17:30 pm
- 地點：理學院四樓理 SC 4009-1 室
- 茶會：15:00 於理 SC 4010 室 (系辦公室)

Abstract

We will report the recent progress in solving the isometric extension problem. The problem we are studying generalizes the Aleksandrov problem, the Mazur-Ulam theorem, and the W. Benz theorem on n -normed spaces. We prove that a one-distance preserving mapping is an n -isometry if and only if it satisfies the zero-distance preserving property. We also show that two notions of n -isometries between n -normed spaces are equivalent. Moreover, the Aleksandrov problem and the Mazur-Ulam theorem are equivalent in the context of n -normed spaces. At last, we will present some ideas concerning non-Archimedean spaces.

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