

22(6)

On Extension of Isometries between the Unit Spheres of Normed Space E and $C(\Omega)$

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On Extension of Isometries between the Unit Spheres of Normed Space E and $C(\Omega)$

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Abstract In this paper, we study the extension of isometries between the unit spheres of normed space E and $C(\Omega)$. We obtain that any surjective isometry between the unit spheres of normed space E and $C(\Omega)$ can be extended to be a linear isometry on the whole space E and give an affirmative answer to the corresponding Tingley's problem (where Ω be a compact metric space).

Key words [isometric mapping](#) [isometric extension](#) [Tingley's problem](#)

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