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The Isometric Extension of the into Mapping from the Unit Sphere $S(l^\infty_{(2)})$ to $S(L^1(\mu))^1$

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摘要
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The Isometric Extension of the into Mapping from the Unit Sphere $S(l^\infty_{(2)})$ to $S(L^1(\mu))^1$

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Abstract This is the first paper to consider the isometric extension problem of an into-mapping between the unit spheres of two different types of spaces. We prove that, under some conditions, an into-isometric mapping from the unit sphere $S(\ell_{(2)}^{\infty})$ to $S(L^{1}(\mu))$ can be (real) linearly isometrically extended.

Key words   isometric mapping   isometric extension

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