

UNIVERSALITY PROPERTIES OF ℓ_∞/c_0

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We strengthen a result of S. Todorčević from [1] by showing that if \mathfrak{c} is not a Kunen cardinal, then there is a uniform Eberlein compact space K such that the Banach space $C(K)$ does not embed isometrically into ℓ_∞/c_0 . We prove a similar result for isomorphic embeddings. We also construct a consistent example of a uniform Eberlein compactum whose space of continuous functions embeds isomorphically into ℓ_∞/c_0 , but fails to embed isometrically.

REFERENCES

- [1] S. Todorčević, *Embedding function spaces into ℓ_∞/c_0* , J. Math. Anal. Appl. 384 (2011), 246-251.