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Under the Continuum Hypothesis all nonreflexive Banach space ultrapowers are primary

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(Submitted on 8 Jul 2011)

In this note a large class of primary Banach spaces is characterized. Namely, it will be demonstrated that under the Continuum Hypothesis the ultrapower of any infinite dimensional nonsuperreflexive Banach space is always primary. Consequently, any infinite dimensional nonsuperreflexive Banach space can be isometrically embedded into its primary ultrapowers.

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