



Colloquium del Departamento de Análisis Matemático

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“Banach limits and application”

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a las 13:00 horas en el seminario 222

Abstract:

A linear functional $B \in \ell_\infty'$ is called a Banach limit if

1. $B \geq 0$, i.e. $Bx \geq 0$ for any $x \geq 0$, $x \in \ell_\infty$ and $B \mathbb{1} = 1$,
2. $BTx = Bx$ for all $x \in \ell_\infty$, where T is the shift operator.

We study geometrical and order properties of the set of Banach limits. Applications are related to the Walsh system.

Joint work with E. Alekhno, F. Sukochev and A. Usachev.

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