

Jerzy Kakol* This work is supported by AvH.

Simple construction of spaces without the Hahn-Banach extension property

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Abstract: An elementary construction for an abundance of vector topologies ξ on a fixed infinite dimensional vector space E such that (E, ξ) has not the Hahn-Banach extension property but the topological dual $(E, \xi)'$ separates points of E from zero is given.

Keywords: Hahn-Banach extension property, topological vector space

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