

Vysoké učení technické v Brně Fakulta stavební Ústav matematiky a deskriptivní geometrie

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On the Complexification of Linear Operators and its Applications

Přednášku přednese dr. Witold Majdak



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Abstract. The aim of this talk is to demonstrate how the complexification procedure can be used to derive important properties of operators acting on a real Hilbert space from their counterparts in the complex setting. In particular, we will outline how the spectral representation theorem for real Hilbert spaces can be derived from its complex version. Although this result is often regarded as part of mathematical folklore, it nonetheless requires some explanation.