



FAKULTA ELEKTROTECHNIKY
A KOMUNIKAČNÍCH
TECHNOLOGIÍ ústav matematiky

Srdečně zveme všechny zájemce na přednášku

Exponential Stability for Systems of Linear Functional Differential Equations,

kterou přednese

Prof. Leonid Berezansky

Department of Mathematics
Ben-Gurion University of the Negev, Beer-Sheva, Israel

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Místo konání: Ústav matematiky FEKT, T6.16, 6. patro, Technická 8



Abstract. Various results and techniques, such as the Bohl-Perron theorem, a priori estimates of solutions, M-matrices and the matrix measure, are applied to obtain new explicit exponential stability conditions for the system of vector functional differential equations. Using these results, we deduce explicit exponential stability tests for second order vector delay differential equations. In the talk we consider also exponential stability of the second order linear delay differential equation with matrix coefficients. The talk is based on joint works with Elena Braverman, Josef Diblík, Zdeněk Svoboda and Zdeněk Šmarda.

Přednáška je určena všem zájemcům o danou problematiku a je podpořena z RP182314001/11121.

doc. RNDr. Michal Novák, Ph.D.

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