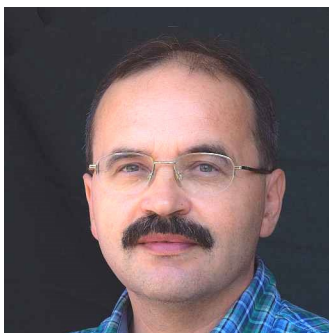


Vysoké učení technické v Brně
Fakulta stavební
Ústav matematiky a deskriptivní geometrie

Vás zve na přednášku

**Shadowing and hyperbolicity
for linear delay difference equations**

Přednášku přednese Prof. Mihály Pituk



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ve středu 27. srpna 2025 ve 13:00
v zasedací místnosti ústavu (ÚMDG, 2. patro Z205), ul. Žižkova 17.

Abstract. It is known that hyperbolic linear delay difference equations are shadowable on the half-line. In this talk, we prove the converse and hence the equivalence between hyperbolicity and the positive shadowing property for the following two classes of linear delay difference equations: (a) for non-autonomous equations with finite delays and uniformly bounded compact coefficient operators in Banach spaces, (b) for Volterra difference equations with infinite delay in finite dimensional spaces.

Ing. Jan Holešovský, Ph.D.
vedoucí ústavu