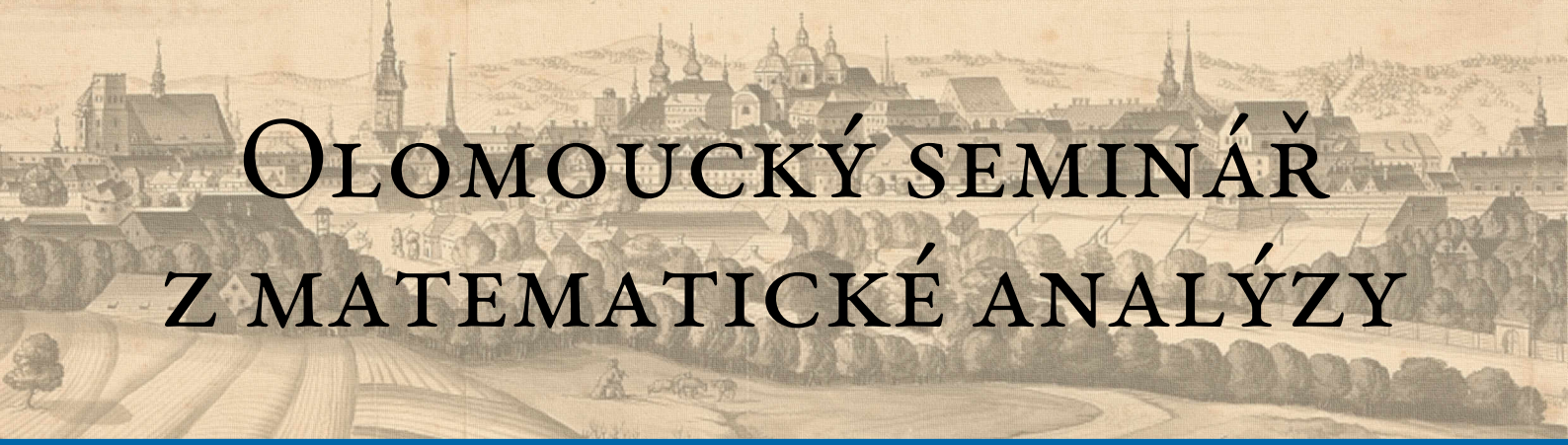

Olomoucký seminář z matematické analýzy

V úterý **29. října 2024 od 13.30** v učebně 5.068, PřF UPOL, 17. listopadu 12

RNDr. Lenka Rucká, Ph.D.

z Matematického ústavu SU v Opavě

pronese přednášku na téma

Genericity of distributional chaos in non-autonomous systems

Abstract: In this talk we will talk about two open problems concerning distributional chaos in non-autonomous discrete dynamical systems introduced by Balibrea, Smítal and Štefánková. In the first problem it is wondered if the limit function of pointwise convergent non-autonomous system with positive topological entropy is distributionally chaotic of type 2. The answer to this problem depends on the given metric and can be both, positive or negative. In the second open problem it is wondered if to be distributionally chaotic is a generic property of pointwise convergent non-autonomous systems. Here, the answer is negative for systems on the Cantor set. On an interval, distributionally chaotic systems form dense set, independently of the metric we use. We will also give the summary of some generic properties in non-autonomous systems.

Katedra matematické analýzy a aplikací matematiky

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