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Recent Results on Singular Elliptic Equations with Unbalanced Variable-Exponent Growth

Přednášku přednese dr.Witold Majdak



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Ve středu 11. listopadu 2026 v 10:00
v zasedací místnosti ústavu (ÚMDG, 2. patroZ205), ul. Žižkova 17.

Abstract. The aim of this talk is to present recent results on singular elliptic problems with (p(z),q(z))-growth. We will first introduce the relevant function spaces and weighted variable-exponent Laplacians, establishing the mathematical framework for the analysis of these problems. We will then discuss results on the existence and qualitative properties of solutions, highlighting the main challenges posed by singularities and variable growth conditions, as well as the novel contributions of the presented results.

doc. Mgr. Irena Hinterleitner, PhD.
vedoucí ústavu