



ODDĚLENÍ LOGIKY / FILOSOFICKÝ ÚSTAV AV ČR  
DEPARTMENT OF LOGIC / INSTITUTE OF PHILOSOPHY CAS

# SEMINÁŘ LOGIKY SEMINAR OF LOGIC



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## Some remarks on the constructive conception of predicativity

The notion of predicativity emerged in the early 20th-century debate on paradoxes. From a foundational perspective, a key development has been the proof-theoretical analysis of the notion of predicativity ("given the natural numbers") conducted by Feferman and Schütte, which led to the identification of a limit ordinal for predicative theories. Nowadays, predicative theories are primarily employed in the foundations of constructive mathematics. Examples include CZF and various versions of Martin-Löf's type theory. In these theories, constructions that are not predicatively admissible according to the classical proof-theoretical conception are considered fully legitimate, thus giving rise to a constructive notion of generalized predicativity. The talk aims to analyze the resulting notion of predicativity mainly in the context of Martin-Löf's type theory.

**Thursday 18/04/2024 | 10.30 CET**

Meeting room („zasedačka“), Institute of Philosophy CAS, Jilská 1, Prague 1