

31.05.2021

Monday's Nonstandard Seminar 35

15:00

Author: Anastasia Molchanova (University of Vienna)

Title: **Well-posedness of variational formulation of “modular” PDE**

Abstract:

We discuss an extension of the classical variational theory of evolution equations in the setting of modular spaces, including the case of non-reflexive and non-separable spaces. To this end, we introduce a new dual pairing proving that the chain rule holds. Then we prove well-posedness in an extended variational sense for evolution equations, without relying on any reflexivity assumption and any polynomial requirement on the nonlinearity.

This is joint research with Luca Scarpa (Politecnico di Milano) and Alexander Menovschikov (University of Hradec Králové).