



universität  
wien

Fakultät für Mathematik

## EINLADUNG

zu

einem didaktischen Vortrag

im Rahmen der Habilitation von

**Mgr. dr. Wojciech Górný**

(Universität Wien)

**“The direct method of the calculus of variations”**

## **“The direct method of the calculus of variations”**

### Abstract:

*In this lecture, I will present the direct method of the calculus of variations and prove a general existence result for solutions of a large class of variational problems. I will then discuss an application to the Dirichlet energy and give examples that show that the assumptions of the existence theorem are necessary.*

*Setting: This lecture would fit into the specialization module “Variationsrechnung” in the current curriculum of the Bachelor of Science program. I assume that the students are already familiar with one-dimensional Sobolev spaces from a previous lecture.*

**Freitag, 13. September 2024**

**9:00 Uhr bis 9:45 Uhr**

**Ort: SR 12, 2 OG.**

**OMP 1**

**Michael Eichmair**

**Radu Bot**