

Fachgebiet Analysis
Prof. Dr. Daniel Hauer
Prof. Dr. Friedrich Sauvigny

Fachgebiet Optimierung
Prof. Dr. Sabine Pickenhain

Fachgebiet Optimale Steuerung
Prof. Dr. Gerd Wachsmuth



Forschungsseminar Analysis und Optimierung Sommersemester 2026

Im Rahmen des Forschungsseminars spricht am **Donnerstag, den 16. Juli 2026**

Yabo Yang

Universität Neapel Friedrich II

Titel: Anisotropic gradient rearrangement of BV functions and applications

Inhalt: We introduce a symmetrization technique for the distributional gradient of a function of bounded variation in the anisotropic setting. This generalizes the result from Euclidean case by separating the absolutely continuous part of the anisotropic gradient from its singular part. Main result is an L^1 comparison between the function and its anisotropic symmetrization. Moreover, as an application, we derive isoperimetric inequalities for some geometric functionals related to the torsional rigidity.

Weitere Details zum Seminar: Der Vortrag findet in Raum HG 3.45 des Zentralkampus Cottbus der BTU statt.