Fakultät Mathematik                                     Dresden, 4. April 2024
Institut für Analysis


Im

# Oberseminar Analysis

hält

# Dr. **Guy Fabrice Foghem Gounoue**

TU Dresden, Fak. Mathematik,
Institut für Wissenschaftliches Rechnen

einen Vortrag zum Thema

# Gradient flow solutions for porous medium equations with nonlocal Lévy-type pressure

Abstract:
We study a porous medium-type equation whose pressure is given by a nonlocal Lévy operator associated to a symmetric jump Lévy kernel. The class of nonlocal operators under consideration appears as a generalization of the classical fractional Laplace operator. For the class of Lévy-operators, we construct weak solutions using a variational minimizing movement scheme. The lack of interpolation techniques is ensued by technical challenges that render our setting more challenging than the one known for fractional operators.

Datum:      **Donnerstag, 11. April 2024**
Zeit:         **16:40 Uhr**
Raum:       **WIL C 129**


Kontakt: Prof. Dr. Ralph Chill


Alle Interessent:innen sind herzlich eingeladen.