



Wir laden Sie sehr herzlich ein zu einem Vortrag im Rahmen des
Oberseminars Stochastische Analysis:

Dr. Theresa Lange

(Universität Bielefeld)

*“Global existence and non-uniqueness-in-law for 3D Euler equations
with transport noise”*

Dienstag, 27. Juni 2023

Beginn: **15.15 Uhr**

Raum: **F426**

Interessenten sind herzlich willkommen!

R. Denk, M. Kunze, M. Kupper, A. Blessing

Abstract: Consider the three-dimensional Euler equations perturbed by a multiplicative Stratonovich noise of transport type. With the help of a flow transformation of the resulting SPDE and a convex integration scheme inspired by DeLellis-Szekelyhidi-2014, we construct probabilistically strong, analytically weak solutions which exist globally in time and are Hölder continuous. Our analysis allows to prescribe the kinetic energy up to a stopping time which gives non-uniqueness in law. The results presented in this talk are based on joint work with Martina Hofmanová (Bielefeld University) and Umberto Pappalettera (Bielefeld University).
