Prof. Dr. Fabian Wirth
Lehrstuhl für Dynamische Systeme

UNIVERSITÄT
PASSAU
Fakultät für Informatik und Mathematik

Extremal admissibility and Baillon's Theorem on maximal regularity

Felix Schwenninger (University of Twente, NL)

Baillon's result states that maximal regularity of an abstract Cauchy problem is rare when considered with respect to supremum norms; it only occurs when the corresponding semigroup is uniformly continuous or the geometry of the state space is sufficiently coarse.

In this talk we show that the latter alternative can be excluded for a refined notion,Which is based on an analogy to the concept of admissibility.