


INVITATION TO THE DOCTORAL SEMINAR

Dipl.Ing. Kathrin Spendier, BSc
Universität Klagenfurt

**“Numerical Methods for Stochastic Differential Equations
with Irregular Coefficients”**



<https://classroom.aau.at/join/7471271>  Wednesday, 26 May 2021
stat

 10:00 a.m.

Abstract

In this talk we will introduce stochastic differential equations with irregular coefficients. We will discuss about the convergence rate of the tamed Euler-Maruyama scheme for stochastic differential equations with discontinuous and polynomially growing drifts. Our approach relies on a transformation-based approach with the advantage to overcome the discontinuities in the drift, so that the transformed equation will have Lipschitz continuous coefficients. In the end, we will give a short outlook on a second ongoing research topic in the field of computational stochastics.

Michaela Szölgényi and the Department of Statistics look forward to seeing you at the talk!

