



Lehrstuhl für Analysis und Modellierung

**Lehrstuhl-Seminar
Wintersemester
2018/2019**

Dr. Birgit Schörkhuber

Karlsruhe Institute of Technology

**Singularity formation in supercritical
wave equations**

19. Oktober 2018 - 14:00

Seminarraum IADM 8.526, Pfaffenwaldring 57

Abstract: In this talk, we consider the wave equation with a focussing power nonlinearity. While serving as a toy model for more complicated (physically relevant) problems, this equation is mathematically interesting in its own right and has received a lot of attention in the past years. We restrict ourselves to the so-called energy supercritical case and discuss the role of self-similar solutions in the generic blowup dynamics. This talk is based on joint works with Roland Donniger and Irfan Glogic (Vienna)