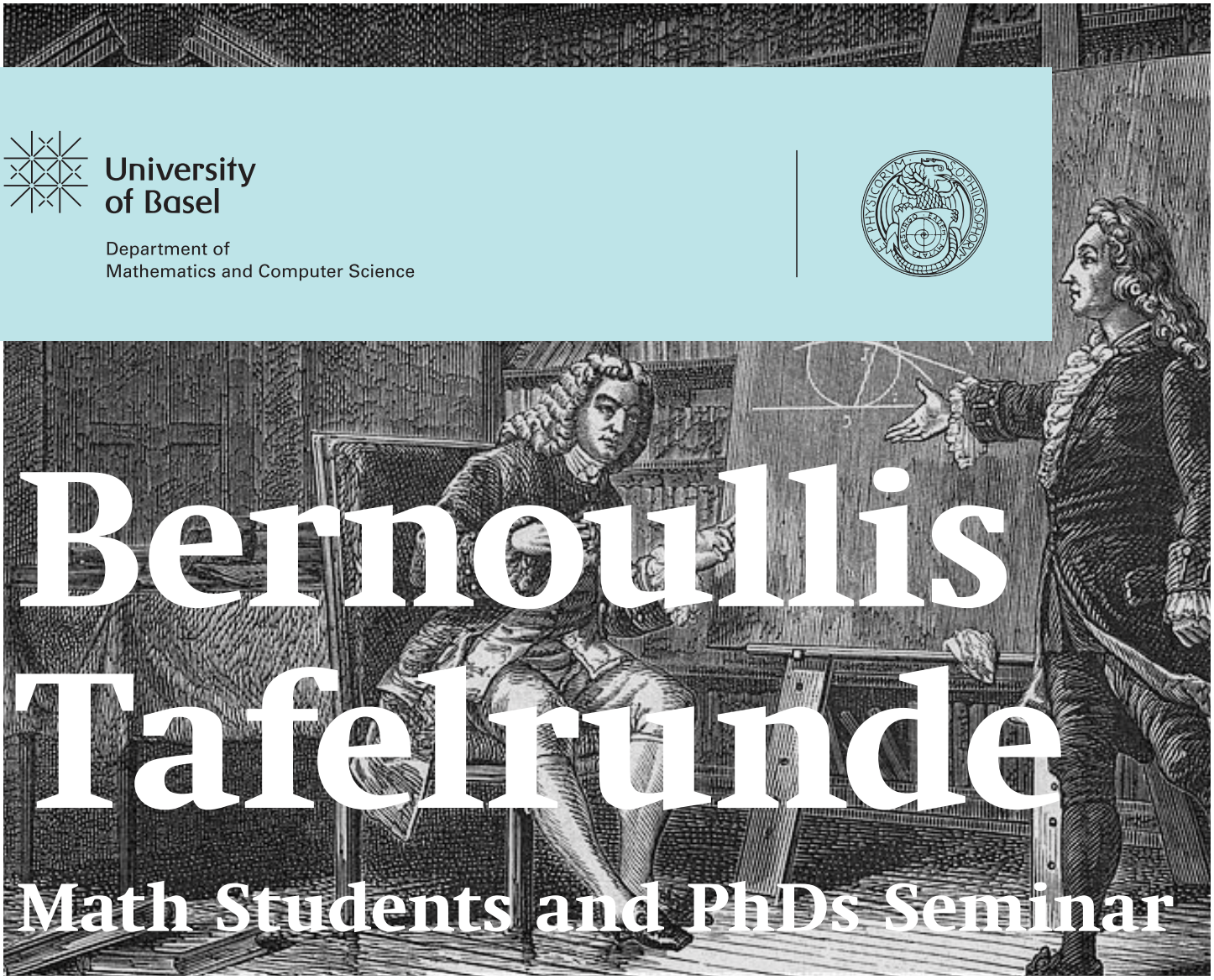
University of Basel

Department of
Mathematics and Computer Science



# Bernoullis Tafelrunde

## Math Students and PhDs Seminar

# On PDEs with random coefficients and random domain


## Florian Sonderegger (Universität Basel)



### Abstract

Many quantities and phenomena in physics, engineering, and other sciences obey or are modelled by partial differential equations (PDEs). When all the input data is known exactly, there are several numerical methods available whose behavior is understood well. However, in practice one can never know the exact input data, be it due to manufacturing tolerances, inprecise measurements, material impurities, or other causes. In this talk, I will first recap some classical results from numerical analysis for solving PDEs, and then I will discuss how to tackle PDEs with random coefficients and domains and give some examples.


November 23, 2026 at 12:15

DMI, Spiegelgasse 5, SR 05.002

Scan the QR code to register for lunch