

BERNOULLIS TAFELRUNDE

GRADUATE STUDENT SEMINAR

Thursday, 9 April, 12:15-13:00
Seminarraum 05.002, Spiegelgasse 5

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Numerical treatment of boundary integral equations and stochastic PDE

ABSTRACT

One of the classical numerical approaches for PDE on a given domain is the finite element method. For a certain class of PDE there exists a different approach which projects the PDE on the boundary, resulting in a boundary integral equation. We will introduce this different approach and its numerical treatment in a for everybody accessible manner and discuss its advantages and disadvantages. Towards the end I hopefully will be able to explain in an easy way the topic of my master thesis over a certain class of stochastic PDE and some research based on it.