



Antrittsvorlesung / Inaugural lecture

Donnerstag, den 1. Februar 2024, um 17:15 Uhr, im Hörsaal 5

Prof. Dr. Winnifried Wollner*

(Universität Hamburg, Fachbereich Mathematik)

"Optimization of Infinite Dimensional Systems – Analysis and Approximation"

Zusammenfassung/Abstract:

Within this talk, we will give an overview of recent questions and results in the optimization of infinite dimensional systems tackled within my workgroup. We will discuss existence results and optimality conditions for optimization problems governed by phase-field damage processes and related variational inequalities. Further, we will show challenges in the approximation of solutions to infinite dimensional optimization problems by discretization. Particular emphasize will be given to the additional requirements by the discretization of an optimization problem compared to a differential equation alone.

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