Wir laden recht herzlich zu einem Vortrag im Rahmen des

Oberseminars Numerische Optimierung

ein:

Sandra Marschke

(Karl-Franzens Universität Graz)

"Realistic mathematical modeling, identification and optimisation of violin bridges"

Dienstag, 3. März 2020

Beginn: **10:00 Uhr**
Raum: **F 424**
Interessenten sind herzlich willkommen!

Abstract: We develop a mathematical model to describe the dynamical behaviour of a violin bridge. To attain appropriate results we have, amongst others, to incorporate the orthotropic elastic structure of the wooden bridge into the numerical framework employing isogeometric mortar methods. Afterwards we introduce an inverse parameter identification problem. For this problem setting we discuss two different solution approaches, one using the adjoint approach and the other combining methods from Bayesian Inversion and machine learning.