

SEMINARVORTRAG

Das Institut für Mathematik lädt zu folgendem Vortrag im Rahmen des Forschungsseminars: Numerische Mathematik – aktuelle Forschung ein:

Dr. Balázs Kovács

Universität Tübingen
über

L^2 error estimates for wave equations with dynamic boundary conditions

In this talk we will present L^2 error estimates of semi- and full discretisations of wave equations with dynamic boundary conditions, the algorithms use bulk-surface finite elements and Runge—Kutta methods. The analysis resides on an abstract formulation and error estimates, via energy techniques, within this abstract setting. Four prototypical linear wave equations with dynamic boundary conditions are analysed within the abstract framework. For problems with velocity terms and with acoustic boundary conditions order reduction occurs. These can be observed in the presented numerical experiments. The talk is based on a joint work with David Hipp (KIT).

Zeit: Mittwoch, den 12. Juni 2019 um 16.30 Uhr

Ort: Bauing.-Gebäude, Technikerstraße 13/6. OG, Seminarraum B 609

Gäste sind herzlich willkommen!

Lukas Einkemmer und Alexander Ostermann