Announcement of a Seminar in the Master Program Mathematics

Graduate Seminar on Efficient Simulation (S5E2)

jointly with a

Graduate Seminar on Modeling and Simulation with Partial Differential Equations (S5B4)

Topic: Analysis and Numerical Methods for thin elastic structures
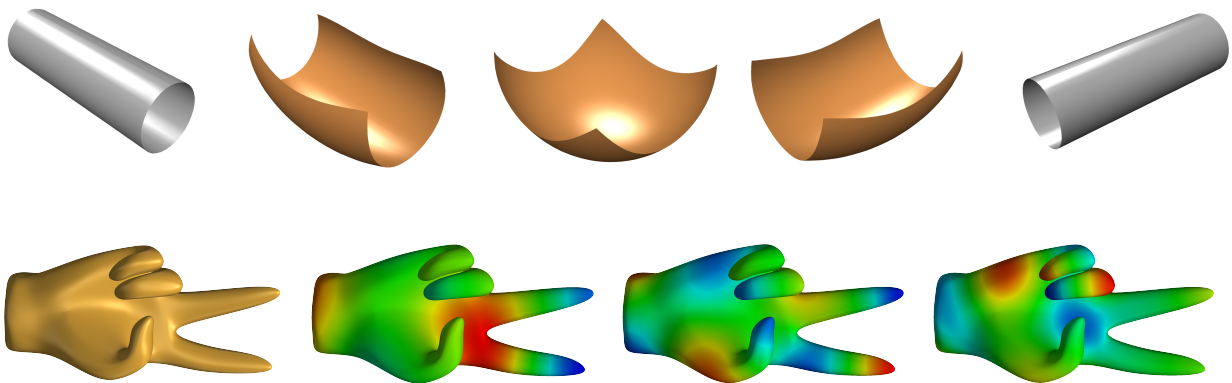
Description:
In this seminar we will study thin elastic structures. The seminar will cover rigorous analysis from a calculus of variations perspective in the context of plates and shells and will introduce the participants into the numerical approximation of the resulting PDEs based on subdivision finite elements and on discrete exterior calculus.

Expected background knowledge:
Introduction to partial differential equations and basic knowledge in functional analysis *and/or* introduction to the finite element method.

Date and time: Wednesday, $13-15$, SR 2.025 EA 60

First seminar meeting: Wednesday, October 16th, 13 c.t., SR 2.025 EA 60

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