



# Forschungskolloquium Computational Science and Engineering

Einladung zum Vortrag

## The mechanics of lattice-type structures: theoretical and computational modeling and experiments

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**Zeit:** Donnerstag, 13.10.2022, 17:00 Uhr

**Zusammenfassung:** First, different aspects of theoretical and computational modelling of the mechanics of lattice-type (cellular) structures are discussed: from classical and generalized continuum theories to standard and non-standard finite element methods. For both practical and theoretical reasons, models and methods for structures (bars, beams, membranes, plates and shells) are given a special emphasis. Second, some observations are made from validation experiments carried out for 3D-printed metal lattice structures.

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