

**Mathis Bode (RWTH Aachen Univ.)**

**Title: *Subgrid Modeling of Turbulent Reactive Multiphase Flows Using Physics-Informed Enhance Super-Resolution Generative Adversarial Networks***

**Abstract**

This talk shows examples how deep learning is used in the context of subgrid modeling for LES of reactive/interfacial flows. Main focus is on the the recently developed physics-informed enhanced super-resolution GAN.