

Mathematisches Kolloquium

Einladung zum Vortrag von

Herrn JProf. Dr. Abdulla Ghani

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über das Thema

High Performance Computing and Machine Learning for the Energy Challenge

Zusammenfassung: Climate change is one of the most important challenges that we face today. Technological barriers hinder a sustainable and carbon-free generation of energy, for which fluid mechanics play a central role. I highlight recent research of my group, where we combine machine learning methods and high-fidelity numerical simulations to develop reduced-order models that predict future flow states with high accuracy. Importantly, I will present a large range of scientific questions including canonical and industrial problems at scale.

Zeit: Freitag, 15. März 2024, 15:00Uhr

Ort: Seminarraum 1.067, Mathematik-Gebäude 20.30