



# CSC Seminar

## SPEAKER

**Dr. Christian Himpe**

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## TITLE

**Accelerating Gas Network Simulations**

## ABSTRACT

Simulation and control of gas networks is essential for guaranteed balancing of supply and demand, but is becoming even more pivotal due to the renewable energy transition: As green energy sources increasingly enter the energy mix, their often volatile nature necessitates ever more simulations to account for various uncertainties. However, the allotted time horizons for completing this simulation-based uncertainty quantification does not suffice. To this end, we will discuss input-output modeling, simulation, and model reduction, with the goal of accelerating gas network simulations.

Tuesday, October 27, 2020 at 2 pm  
Seminar room Prigogine V0.05-2+3 and BBB