



TECHNISCHE  
UNIVERSITÄT  
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**RWTH**AACHEN  
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# HPC Introduction 2025

Tim Cramer

GREAT COMPUTING COMES WITH GREAT SUPPORT.

# Why is this event?

- Long tradition in parallel programming courses (e.g., PPCES)
  - How to introduce new users?
  - How to cover high-level overview on HPC?
  - How to reach domain scientists who “only” use a parallel software without programming?
  - How to address the “decision makers”?
- Solution: Separated event (this one)
- Follow-up event PPCES (10.03.25 - 14.03.25): <http://www.itc.rwth-aachen.de/ppces>
- Consultation hours (every third Thursday of month):  
<https://blog.rwth-aachen.de/itc-events/hpc-consultation-hour/>

## Part I

basic information about  
HPC **resources**

09:00 - 09:05	Welcome	Tim Cramer
09:05 - 09:35	HPC Architecture Basics and RWTH Resources	Tim Cramer
09:35 - 10:05	Storage Strategy for HPC Users	Philipp Martin
10:05 - 10:10	Break	
10:10 - 10:55	NHR and RWTH Computing Projects	Tim Cramer
10:55 - 11:30	Introduction to JupyterHub	Alvaro Frank
11:30 - 12:00	Access to CLAIX and Using multi-factor Authentication	Tim Cramer
12:00 - 13:00	Break	

## Part II

basic information about  
HPC **usage**

13:00 - 13:30	Cluster Software Environment HPC	Felix Tomski
13:30 - 13:50	Container Usage	Sven Hansen
13:50 - 14:30	Introduction to Slurm	Alvaro Frank
14:30 - 14:45	Break	
14:45 - 15:30	Parallel Programming Overview	Tim Cramer
15:30 - 16:15	Performance Metrics & Measurements	Felix Tomski
16:15 - 16:30	Closing Session	Tim Cramer

# Questions during the talks

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- Please feel free to ask questions by
  - using the Zoom Q&A feature (preferred over the chat window)
  - by raising your hand 