



# natESM Training 2024

23.07.2024 · DKRZ · Bundesstraße 45a · 20146 Hamburg

Topic of the day: GPU programming on LEVANTE Nvidia GPUs

9:00	Arrival and registration
9:20	Welcome and overview Hendryk Bockelmann (DKRZ)
9:30	Presentation: General aspects on GPU programming – focus on OpenACC usage for LEVANTE Nvidia GPU nodes Claudia Frauen (DKRZ), Dominik Zobel (DKRZ)
11:00	Presentation: Specific aspects for GPUs on LEVANTE Jan Frederik Engels (DKRZ), Harald Braun (Eviden)
11:30	Hands-on 1: Getting started on GPU programming
12:00	L u n c h
13:00	Hands-on 2: Running own kernels on GPUs
14:00	Specialities from NVIDIA: Profiling, CUDA and more Dmitry Alexeev (NVIDIA)
15:00	C o f f e e b r e a k
15:30	Hands-on 3: Running own kernels on GPUs Part II
16:50	Feedback for the day, next steps Hendryk Bockelmann (DKRZ)
17:00	E n d o f w o r k s h o p

## **Requirements:**

*Please bring your own laptop & make sure you have access to LEVANTE (via [DKRZ user account](#)). For an active hands-on session, please bring your own code/ideas for using the interfaces. If necessary, please let us know the code or specific questions in advance.*