



# [HYBRID] Hybrid Programming in HPC – MPI+X

## Thursday 12 February 2026

**Day3: MPI Memory Models and Synchronization - Room 0.439 / Rühle Saal (08:45 - 16:30)**

time	[id] title	presenter
08:45	[19] Programming Models (continued)	
09:05	[20] MPI + MPI-3.0 Shared Memory	
10:00	Coffee Break	
10:15	[21] MPI Memory Models and Synchronization	
11:00	Coffee Break	
11:15	[22] Optimized node to node communication	
11:35	[23] Recap - MPI Virtual Topologies	
12:05	Lunch	
13:35	[24] Topology Optimization	
14:15	[25] Conclusions	
14:30	Coffee Break	
14:45	[26] Practical (replicated data)	
16:00	[27] Q&A	