An Introduction to HPC at the University Oldenburg

March 25 – 28, 2018 from 10:00 to 17:00 in room W1 0-008 given by Wilke Trei (UOL), Stefan Harfst (UOL) and Atanas Atanasov (Intel)

Time	Monday	Tuesday	Wednesday	Thursday
10:15 – 11:15	Introduction to HPC (SH)	Intel Cluster Tools (AA) Compiler Intel MKL ThreadAnalyser	Introduction to Parallel Programming (SH) Overview over parallel models Parallel Programming with OpenMP	Introduction to Matlab on the local HPC-System (SH) • Setting up the Client • Job submission
11:15 – 11:30	Coffee Break			
11:30 – 13:00	Basic Usage of the HPC Cluster (WT) • Job Scheduler SLURM • Basic Use of SLURM • Exercise SLURM	Intel Cluster Tools (AA) • (cont'd)	Parallel Programming with OpenMP (WT) • Examples and Exercises	Parallel Programming in Matlab (SH) • Parfor • Examples
13:00 – 13:45	Lunch Break			
13:45 – 15:15	 HPC Environment (SH) File Systems Software and Modules Compiler and Toolchains Examples and Exercises 	Intel Cluster Tools (AA) • (cont'd)	Parallel Programming with OpenMP (WT/SH) • Examples and Exercises	Parallel Programming in Matlab (SH) • SPMD • Examples
15:15 – 15:30	Coffee Break			
15:30 – 17:00	Advanced SLURM (SH) • Job Arrays • Examples and Exercises	Intel Cluster Tools (AA) • (cont'd)	Performance Optimization (SH) • Examples and Exercises	