



# Advanced Scientific Computing Workshop

## Thursday, June 26, 2014

### High-performance computational aspects: Session 1 - HIL E 1 (9:00 AM - 6:00 PM)

time	[id] title	presenter
9:00 AM	[19] Welcome and introduction	
9:05 AM	[20] Hardware Architecture (NUMA/CPU/Interconnects/GPGPU/FPGA)	Mr KOSENKOV, Alexandr
10:30 AM	Coffee break	
11:00 AM	[21] Object-oriented programming and meta-programming (C++)	Mr KOSENKOV, Alexandr
12:30 PM	Lunch break	
2:00 PM	[22] Conventional parallelism models (MPI/OpenMP/pthreads)	Mr KOSENKOV, Alexandr
3:30 PM	Coffee break	
4:00 PM	[23] Modern parallelism models (PGAS/TBB/Linda/Julia etc)	Mr KOSENKOV, Alexandr

# Friday, June 27, 2014

## High-performance computational aspects: Session 2 - HIL E 1 (9:00 AM - 6:00 PM)

time	[id] title	presenter
9:00 AM	[24] Object oriented Python programming	Mr GAMPER, Lukas
10:30 AM	Coffee break	
11:00 AM	[25] Profiling and Debugging in cluster environments	
12:30 PM	Lunch break	
2:00 PM	[26] Getting high performance out of the Python code	
3:30 PM	Coffee break	
4:00 PM	[27] GPGPU programming (CUDA/OpenCL/thrust/OpenACC)	