

ASHPC25

Tuesday, 20 May 2025

Plenary: Block 1 (10:00 - 10:45)

time	[id] title	presenter
10:00	[64] Slovenian Genomic Data Infrastructure	ČEP, Aleš
10:15	[65] DLR solver for the CME	MANGOTT, Julian
10:30	[66] Sparse matrix operations on RISC-V vector architecture	PILIPOVIĆ, Ratko

Plenary: Block 2 (11:15 - 12:30)

time	[id] title	presenter
11:15	[67] HPC Info - Enhanced Resource Tracking for SLURM Users and Administrators	Dr SITKIEWICZ, Sebastian
11:30	[68] Strong Scaling Days: Testing massively parallel applications on VSC	GOLDENBERG, Florian
11:45	[69] Flexible and compact high density modular data center	PANČUR, Matjaž
12:00	[70] Blurring the lines between compilation and runtime optimization in the DAPHNE open source software framework	DOKTER, Mark
12:15	[71] Unveiling the Energy Cost of Parallel Performance Portability in C++	Dr LASO, Ruben

Plenary: Block 3 (14:45 - 15:30)

time	[id] title	presenter
14:45	[72] High clouds	GASPARINI, Blaž
15:00	[73] Using machine learning to distinguish km-scale climate models and observations on a regional scale	MEINDL, Maximilian
15:15	[74] Strategies for faster deep learning-based modeling of global barostatic processes	KIANI SHAHVANDI, Mostafa

Wednesday, 21 May 2025

Plenary: Block 4 (09:45 - 10:45)

time	[id] title	presenter
09:45	[75] Learning equations	JUG, Matevž
10:00	[76] Optimizing Distributed Deep Learning Training by Tuning NCCL#	SALIMI BENI, Majid
10:15	[77] nccsee: A Lightweight Profiling Tool for NCCL	VARDAS, Ioannis
10:30	[78] HPC for Hybrid Threat Resilience: Insights from the HYBRIS Project	STÖHR, Markus

Plenary: Block 5 (11:15 - 12:30)

time	[id] title	presenter
11:15	[79] Go wrapper for CUDA	LOTRIČ, Uroš
11:30	[80] Benchmarking A40, L40, H100 GPUs with cuBLAS	ELEFANTE, Stefano
11:45	[81] Modern GPUs for DE	VERBER, Domen
12:00	[82] Benchmarking the scalability and communication of the CholeskyQR2-IM algorithm on national and European HPC resources	DAVIDOVIĆ, Davor
12:15	[85] GaMS meets Vega and Leonardo: Training Slovene LLMs	VREŠ, Domen

Plenary: Block 6 (14:45 - 15:30)

time	[id] title	presenter
14:45	[94] QUBO and quantum annealing: applications and perspectives	KONIORCZYK, Mátyás
15:00	[95] Hybrid QUBO	POVH, Janez
15:15	[96] Bootcamp POSE	GSCHWANDTNER, Philipp

Plenary: Block 7 (16:00 - 16:45)

time	[id] title	presenter
16:00	[87] Update on MUSICA	WIMMER, Elias
16:15	[88] How to play MUSICA	ZABLOUDIL, Jan
16:30	[89] When space runs out: A new central storage system for VSC	HICKEL, Markus

Thursday, 22 May 2025

Plenary: Block 8 (09:45 - 10:45)

time	[id] title	presenter
09:45	[84] AI-zyme: machine learning enhanced protein design	ZEBEC, Žiga
10:00	[98] Cell simulation: the ultimate way for developing better drugs	TOMIC, Drasko
10:15	[101] H ₂ O adsorption at Co ₃ O ₄ (111) surface from a DFT perspective	GENEST, Alexander
10:30	[102] Open-boundary molecular dynamics of ultrasound using supramolecular water models	LAH, Maša

Plenary: Block 9 (11:15 - 12:15)

time	[id] title	presenter
11:15	[86] AI-Powered IT Service Optimization with Language Modelling	DORN, András
11:30	[99] Exploring the origin of enzyme catalysis by simulation methods	STARE, Jernej
11:45	[100] Efficient theoretically guided search for functional metallic thermoelectrics	KHMELEVSKYI, Sergii
12:00	[97] Research Software Engineers (RSE) at the VSC Research Centre	HOEFINGER, Siegfried