

Session: 8:30 – 9:15

- 8:30 - 8:35 **Opening remarks**
Jean-Claude Charr, University of Franche-Comte
- 8:35 - 9:15 Invited talk: **Exotic data distributions for dense linear algebra task-based kernels**
Olivier Beaumont (INRIA Bordeaux Sud-Ouest)

Session: 9:15 – 10:00

- 9:15 – 9:30 **I/O Performance Evaluation of a Memory-Saving DNS Code on SX-Aurora TSUBASA**
Mitsuo Yokokawa, Yuki Yamane, Kenta Yamaguchi, Takashi Soga, Taiki Matsumoto,
Akihiro Musa, Kazuhiko Komatsu and Takashi Ishihara
- 9:30 – 9:45 **On Higher-performance Sparse Tensor Transposition**
Luanzheng Guo and Gokcen Kestor
- 9:45 – 10:10 **GPU-Parallelized Simulation of Optical Forces on Nanoparticles in a Fluid Medium**
Florian Fey, Alexander Gerwing and Sergei Gorlatch

10:10 – 10:40 Coffee Break

Session: 10:40 – 12:15

- 10:40 – 11:05 **Simulating Stellar Merger using HPX/Kokkos on A64FX on Supercomputer Fugaku**
Patrick Diehl, Gregor Daiss, Kevin Huck, Dominic Marcello, Sagiv Shiber, Hartmut
Kaiser and Dirk Pflueger
- 11:05 – 11:30 **Generating Coupling Interfaces for Multiphysics Simulations with ExaStencils and
waLBerla**
Richard Angersbach, Sebastian Kucku and Harald Köstler
- 11:30 – 11:45 **Utilizing batched solver ideas for efficient solution of non-batched linear systems**
Pratik Nayak and Hartwig Anzt
- 11:45 – 12:10 **Implementation of Radio Wave Propagation using RT Cores and Consideration of
Programming Models**
Shinya Hashinoki, Satoshi Ohshima, Takahiro Katagiri, Toru Nagai and Tetsuya
Hoshino
- 12:10 – 12:15 **Closing remarks**
Jean-Claude Charr, University of Franche-Comte