

# **2024 CERN openlab Technical Workshop**

Tuesday, 26 March 2024 - Wednesday, 27 March 2024

CERN

## **Book of Abstracts**



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## **Keynote from CERN's Director for Accelerators and Technology: Future CERN accelerator programme and its technological challenges**

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## **CERN openlab Phase VIII**

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## **Intel AMX: Xeon built-in acceleration for AI**

Intel will focus on the AI accelerators available in today's Xeon solutions (and into future Xeon 6th Gen), on how to use them in the best way.

Walter will talk about Flex and Max GPUs solutions for AI field (available at openlab) and will also mention the Habana Gaudi 2 solutions and the performance offered today and expected from Gaudi-3 and how to access them using Intel DevCloud (IDC).

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## **Diving into NVIDIA Grace Hopper and NVIDIA Grace CPU Superchips: capabilities and performance**

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## **Heterogeneous Architectures Testbed @ CERN and E4 project**

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## **Benchmarking Heterogeneous Architectures with HEPsScore**

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## **The new Prévessin Data Centre at CERN**

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### **Data Storage Technologies - past, present, future**

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## **Framework of a Quantum Database | Intel**

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## **AI and Kubernetes @ CERN - Challenges**

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## **Kubediff - Facilitate and automatize Kubernetes operations**

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## **Oracle: Bringing Developers, DBAs, and Gen AI together**

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## **Siemens - Connectivity and Edge**

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**Accelerating the HEP software**

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**Solving HPC challenges with Micron CXL attached memory products**

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**Real-time Data Processing for Level 1 Trigger using CXL Memory-Lake Architecture | Micron**

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**AI in low-latency environments**

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**Wrap-up**

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