

**Session Program**

**Mar 16 - 17, 2023**

**2023 CERN openlab Technical Workshop**

***Exascale technologies: Heterogeneous  
Architectures Adoption***

CERN, 503/1-001 - Council Chamber

# Thu, March 16

10:15 AM

## Exascale technologies: Heterogeneous Architectures Adoption

Session | Location: CERN, 503/1-001 - Council Chamber

10:15 - 10:30 **Integrating DPC++/oneAPI in the ATLAS software**

**Speaker**  
Attila Krasznahorkay

10:30 - 10:45

**Using SYCL for accelerating CMS physics reconstruction algorithms on heterogeneous backends**

**Speaker**  
Felice Pantaleo

10:45 - 11:00 **OneAPI for LHCb High Level Trigger**

**Speaker**  
Apostolos Karvelas

11:00 - 11:15 **Accelerating Madgraph with CPU vectorization and GPUs**

**Speaker**  
Andrea Valassi

11:15 AM

11:45 AM

## Exascale technologies: Heterogeneous Architectures Adoption

Session | Location: CERN, 503/1-001 - Council Chamber

11:45 - 12:00 **HEPScore: the HEP-specific benchmark**

**Speaker**  
Domenico Giordano

12:00 - 12:15 **Heterogeneous architectures testbed**

**Speakers**  
Joaquim Santos, Krzysztof Michal Mastyna

12:15 - 12:30 **HPC Benchmarking towards Exascale**

**Speaker**  
David Southwick

12:30 PM