Contribution ID: **66**                                    Type: **not specified**

# Science Sessions: Containers for HPC

This track invites submissions that delve into various aspects of HPC containerization, including container orchestration, performance optimization, reproducibility, security, and interoperability with existing HPC ecosystems.

**Session Chair:** Abdulrahman Azab, NeIC/Sigma2,UiO

**Presentations:**

- Barbara Krasovec, and Teo Prica: **"Secure usage of containers in the HPC environment"** (paper presentation)

- Jean Iaquinta, and Anne Fouilloux: **"Unlocking the Potential of Containers in Scientific Computing to Achieve Bitwise Reproducibility, Portability and Performance"** (paper presentation)

- Christian Kniep: **"Metahub - a HPC aware container registry"**

- Marcin Franczyk: **"OCI Compatibility WorkingGroup"**

- Alfio Lazzaro: **"Enabling Message Passing Interface Containers on the LUMI Supercomputer"** (paper presentation)

- Abdulrahman Azab, Christian Schou Oxvig, Samuel Antao, and Alfio Lazzaro: **"HPC Containers for LUMI SuperComputer"**

- Alja Prah, Barbara Krašovec and Dejan Lesjak: **"From Isolation to Integration: A decade of container technology in Slovenian HPC"**

**Presenters:**    AZAB MOHAMED, Abdulrahman (University of Oslo);  LAZZARO, Alfio (HPE);  KRAŠOVEC, Barbara (Jozef Stefan Institute);  KNIEP, Christian;  LESJAK, Dejan;  IAQUINTA, Jean (UiO);  FRANCZYK, Marcin (Huawei)