Contribution ID: **53**   Type: **Lecture**

Scientific computing on heterogeneous architectures

Wednesday 4 May 2022 08:45 (1 hour)

Programming for Heterogeneous Architectures - lecture 1

- Introduction to heterogeneous architectures and the performance challenge
- From general to specialized: Hardware accelerators and applications
- Type of workloads ideal for different accelerators
- Trade-offs between multi-core and many-core architectures
- Implications of heterogeneous hardware on the design and architecture of scientific software
- Embarrassingly parallel scientific applications in HPC and CERN

Summary

Presenter: VOM BRUCH, Dorothea (CPPM/CNRS)

Track Classification: Track 3: Programming for Heterogeneous Architectures