

Session Program

20 March 2026

Heterogeneous Software and Computing - Open Session

Heterogeneous Software and Computing

CERN, 40/S2-B01 - Salle Bohr

Friday 20 March

08:30

Heterogeneous Software and Computing: Heterogeneous Software and Computing

Session | **Location:** CERN, 40/S2-B01 - Salle Bohr | **Conveners:** Charis Kleio Koraka, Dr Andrea Bocci

08:30–08:45 Introduction

Speakers

Dr Andrea Bocci, Charis Kleio Koraka

08:50–09:05

What computing resources can IT provide for the GPU-based developments

Speaker

Dr Andrea Sciabà

09:10–09:25

How can CMS set up these resources for the GPU-based developments

Speaker

Ediz Genc

09:30–09:45

The ACTS track reconstruction software and utilities running on GPUs

Speakers

Andreas Salzburger, Attila Krasznahorkay, Stephen Nicholas Swatman

09:50–10:05

HepScore benchmarking of GPUs

Speakers

Domenico Giordano, Robin Hofsaess

10:10–10:40

coffee break

10:40–10:55

alpaka 3.0, and long term plans for the development of alpaka

Speakers

Rene Widera, Simeon Ehrig

11:00–11:15

Ideas and plans for the evolution of the CMSSW “GPU framework”

Speaker

Matti Kortelainen

11:20–11:35

Offloading CMSSW modules to remote GPUs over MPI

Speakers

Dr Andrea Bocci, Anna Polova, Mario Gonzalez

11:40–11:55

News on SOFIE developments

Speakers

Lorenzo Moneta, Sanjiban Sengupta

12:00–12:15

Updates on the use of GPUs for MC generators

Speaker

Ameya Thete

12:20-12:35

PPD::OV experience with GPU relvals

Speakers

Adriano Di Florio, Dr Antonio Vagnerini

12:35