

Session Program

14-20 Sept 2025



The 4th African Conference on Fundamental and Applied Physics (ACP2025)

Cross-cutting fields

Monday 15 September

14:30

Cross-cutting fields: Instrumentation & Detectors

Session | **Convener:** Ulrich Goerlach

14:30–14:55 **The ATLAS Inner Tracker Upgrade (ITk)**

Speaker

Mounia Laassiri

15:00

15:30

Cross-cutting fields: Accelerators

Session | **Convener:** Ulrich Goerlach

15:30–15:55

Optimization of High Order Mode Effects in Accelerators based on Superconducting Cavities for Energy Recovery.

Speaker

Dr Sanae SAMSAM

16:00

Wednesday 17 September

14:00

Cross-cutting fields

Session | **Convener:** Dr Sanae SAMSAM

14:00–14:25

Status project of STAR: a Compton scattering X-ray source

Speaker

Luca Serafini

14:30

16:00

Cross-cutting fields: Computing

Session | **Convener:** Dr Sanae SAMSAM

16:00–16:20

History and Evolution of High Througput / High Performance Computing Tutorials at the African School of Physics

Speaker

Horst Severini

16:30

Friday 19 September

09:00

Cross-cutting fields

Session | **Conveners:** Dr Sanae SAMSAM, Ulrich Goerlach

09:00–09:25

Compact, cost effective, advanced electron accelerators

Speaker

Luigi Faillace

09:30–09:55

Accelerating the African Renaissance with Particle Accelerators

Speaker

Dr SIMON MULLINS

10:00–10:25

Tests of CPT and gravity on antihydrogen - The ALPHA experiment at CERN

Speaker

Germano Bonomi

10:30

11:00

Cross-cutting fields

Session | **Convener:** Horst Severini

11:00–11:25

The HPC Ecosystems Project: Expanding High-Performance Computing Access, Fostering Collaboration, and Cultivating a Pan-African Scientific Computing Community

Speaker

Bryan John Johnston

11:30–11:55

Super-resolution imaging of transcription in living cells

Speaker

Prof. Ibrahim Cissé

12:00