

Strategic R&D  
Programme on  
Technologies for  
Future Experiments

CERN  
Experimental Physics Department



# EP R&D Software

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Graeme and André

2024-12-11

# Personel News

- Lukas Breitwieser joined EP-SFT to work on GPU Histogramming and CUDA support for Cling
- Aaron Jomy has started in EP-SFT work on ROOT's Python bindings, with the latest versions of cppy
- Graeme will now step down as EP R&D coordinator
  - André will become WP leader
  - Vincenzo Padulano will become deputy WP leader

# Hardware

- IT colleagues have access to an AmpereOne machine for evaluation purposes
  - Supermicro ARS-211M-NR
  - Single socket AmpereOne CPU
    - 192 cores 3.2 GHz
  - ~1TB of RAM
  - One NVMe device
- If you would like to get access to this machine, please let Graeme and André know ASAP

# EP R&D Report

- We have most of the first draft of the WP7 contribution to the EP R&D report
  - Thank you!
- Currently we are missing...
  - AdePT
  - Reconstruction Tracking
  - Reconstruction Calorimetry
  - All promised to arrive soon!
- André and I will give feedback until the end of the year
- Then we will pass it to our Steering Board reviewers for 10 January

# EP R&D Seminars

- Peter gave an ML Sim presentation on December 2
  - <https://indico.cern.ch/event/1469760/>
- We should plan more talks for next year
  - Please let André and Vincenzo know and we will coordinate with Florian
  - Presentations are 25' and need to be understood by the intelligent non-expert!

# Today and Future Meetings

- Track Reconstruction plans!
- Please anticipate planning for the group meetings in 2025!
  - As usual, the third Wednesday of each month would be the normal meeting slot