

LEVERHULME TRUST \_\_\_\_\_

## **MUonE News**



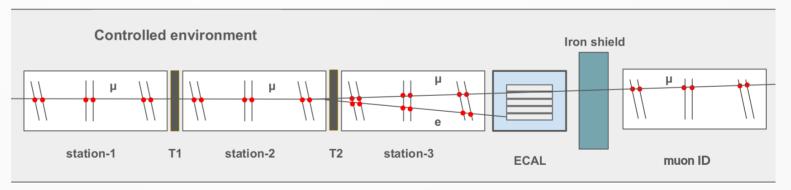
**Muon Group Meeting** 16 December 2024

## **MUonE Phase 1**



- Proposal for MUonE Phase-1 was submitted this Summer.
- The SPS Committee approved the Test Run for 2025.
- Expected in the first half of 2025 (detector commissioning: ~May, data taking ~June).





Muon ID.

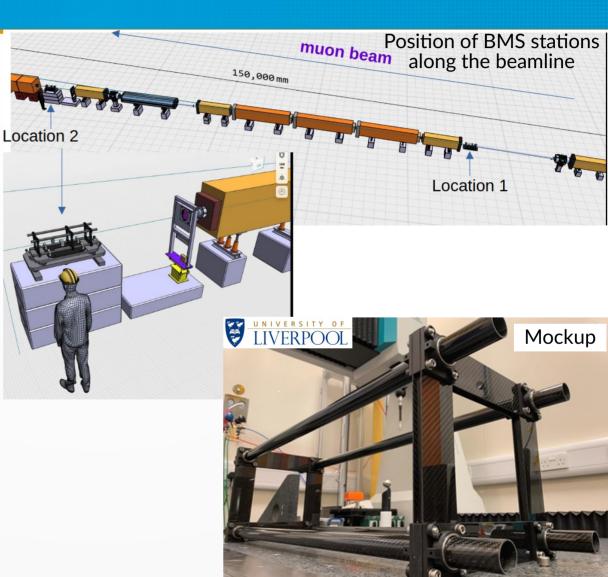
- 3 tracking stations.
- 2 graphite targets (2 cm thickness each).
- - BMS (Beam Momentum Spectrometer).

• ECAL.

## **BMS**



- Carbon fiber mechanics (Themis, John Carroll): production expected to start in January.
- Work in progress on simulation and track reco software (Fedor).



## Additional ongoing activities



- DQM for 2025 run (Saskia).
- Test Run 2023 data analysis:
  - Work ongoing to improve track reconstruction and alignment.
  - Optimize disk space of the reconstruction output (Katie, Clement).
  - Found huge differences between data and MC (i.e. in the angular resolution): improve simulation of the silicon sensors (Giorgia).
  - Develop alternative reconstruction algorithms (Clement).