



Contribution ID: 26

Type: **(b) Poster abstract only (one author must be in person)**

Full simulation of IDEA muon system

Thursday, June 13, 2024 6:44 PM (1 minute)

IDEA detector concept foresees a muon detection system that would be realized using the μ RWELL technology. Each station will consist of a large mosaic of 50×50 cm² μ RWELL detectors.

The objectives include simulating and optimizing the IDEA muon detector design within Key4hep simulation toolkit, evaluating its performance and estimating its physics reach for highly displaced charged particle signatures.

Author: ALI, Mahmoud (FCC)

Presenter: ALI, Mahmoud (FCC)

Session Classification: Poster session

Track Classification: Physics, Experiments and Detectors: Software