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## Full simulation of IDEA muon system

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IDEA detector concept foresees a muon detection system that would be realized using the  $\mu$ RWELL technology. Each station will consist of a large mosaic of  $50 \times 50$  cm<sup>2</sup>  $\mu$ 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.

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