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New geometry for the ILD muon system in MOKKA

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Summary

The progresses are described in the simulation of the ILD muon system within the MOKKA simulation framework according to the most recent developments of the muon detector. The components of the stainless-steel cryostat are fully implemented within the geometry, including the read-out capability of two additional double-layers of scintillator strips. The coil is modeled according to recent studies, in terms of size and material composition. The yoke is equipped with an alternating structure of scintillator-strips and stainless-steel layers. The possibility of rescaling the size of the muon system and of changing the segmentation and size of sensitive and absorber layers in the simulation of the ILD detector makes this geometry suitable for the study of the muon system performances according to the realistic technical design parameters.

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