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Comparison of the Performance of the Dual-Readout Calorimeter for different absorbers

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Future lepton collider experiments (FCC-ee and CEPC) require excellent hadronic energy resolution to exploit their advantages. The dual-readout calorimeter can satisfy the requirement by using two types of calorimeter signals, which have complimentary information about the shower development. The calorimeter design takes into account a range of different absorbers. We investigated the performance, such as energy resolution of EM, hadronic particles, or shower developments, of the dual-readout calorimeter for different absorbers such as Fe, Brass, Cu, Pb, and W. In this talk, we will present the performance comparison for these absorbers derived from the GEANT4 simulation studies.

Author: JANG, Seo Yun (Yonsei University (KR))

Presenter: JANG, Seo Yun (Yonsei University (KR))

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