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Toward First Test Beam With Dual-readout Calorimeter RD for Future E+E- Collider SEUNGKYU HA, Yonsei University, BOBAE KIM, JUNGHYUN LEE, SEHWOOK LEE, Kyungpook National University, SANGHYUN KO, Seoul National University, DOYEONG KIM, JASON LEE, YUNJAE LEE, JONGSUK PARK, MINSANG RYU, IAN WATSON, University of Seoul, YUN EO, Yonsei University, KYUYEONG HWANG, Yonsei, KYUNGHO KIM, MINSOO KIM, SUNGWON KIM, JUNEWOO PARK, HWIDONG YOO, Yonsei University — Calorimeter has been the sprit of modern high energy physics experiments since they provide four-vector of both neutral and charged particles. Future lepton collider experiments (FCC-ee and CEPC) are proposed for the higgs factory to understand the origin of mass and its relation to the Higgs mechanism. High-quality energy measurement for these experiment is imperative to study couplings between Higgs and all decay products. The dual-readout calorimeter is regarded as a good option to satisfy this requirement. KFC DREAM (Korea Future Collider Dual-REAdout Method) is supposed to have the test beam with two prototype modules of dual-readout (DR) calorimeter with pions and protons from SPS at CERN in the end of 2021. We have two goals of the test beam, the first one is to measure the length of the nuclear interaction between pion and proton. The other is to obtain the resolution (energy, position and time) of the prototype DR calorimeter. In this talk, we will present the plan and status for test beam.

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