Abstract Submitted
for the APR21 Meeting of
The American Physical Society

The Simulation of the Dual-readout Calorimeter for Future Collider Experiments Using Key4HEP Common Software Stack SANGHYUN KO, Seoul Natl Univ, YUN EO, SEUNGKYU HA, KYUYEONG HWANG, Yonsei Univ, BOBAE KIM, Kyungpook Natl Univ, DOYEONG KIM, Univ of Seoul, KYUNGHO KIM, MINSOO KIM, SUNGWON KIM, Yonsei Univ, JASON LEE, Univ of Seoul, JUNGHYUN LEE, SEHWOOK LEE, Kyungpook Natl Univ, YUNJAE LEE, JONGSUK PARK, Univ of Seoul, JUNEWOO PARK, Yonsei Univ, MINSANG RYU, IAN WATSON, Univ of Seoul, HWIDONG YOO, Yonsei Univ — The Key4HEP is a common software framework proposed and developed by software experts of all future HEP experiments, including ILC, CLIC, CEPC and FCC. It provides software stacks which can be commonly used for various physics and detector studies on top of LCG releases. The dual-readout calorimeter has also been migrating from standalone GEANT4 toolkit to Key4HEP framework, making room for collaboration with wider communities. We present recent activities on the simulation of the dual-readout calorimeter using Key4HEP and plan for its application to various physics and detector study topics.

Sanghyun Ko
Seoul Natl Univ

Date submitted: 11 Jan 2021 Electronic form version 1.4