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Development of the dual-readout calorimeter for future e+e- colliders

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The dual-readout method is a state of the art calorimetry technique enables outstanding energy resolutions for both electromagnetic and hadronic particles, which has been developed during last two decades. The dual-readout calorimeter detector has been included in the conceptual design reports of both FCC-ee and CEPC projects published in 2018. As a next step, the dual-readout calorimeter R&D team is building a prototype detector with various R&D points and demonstrate all necessary requirements of the detector toward TDRs of the future e+e- collider projects. This presentation reports the recent progress for the dual-readout calorimeter R&D such as prototype detector building, hardware R&D, software development, and simulation studies.

In-person participation

Yes

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