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IDEA Dual-Readout Calorimeter

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Dual-Readout calorimetry is a technique that allows to overcome the non-compensation problem (one of the main limiting factor for the hadronic energy resolution) by the simultaneous measurement of Cherenkov and scintillation light, produced by the shower particles. Thanks to the expected good energy resolution and the excellent particle identification capability, the Dual-Readout fiber calorimeter is the choice for the International Detector for Electron-positron Accelerator (IDEA) detector and one of the most promising options for future leptonic colliders. Test beam results based on a small module read out with Silicon Photomultipliers (SiPM) will be shown, together with the required R&D to make this system suitable for a future collider experiment.

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