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Electromagnetic Calorimetry for the ILC

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The CALICE collaboration is developing calorimeters for use in the Particle Flow approach (PFA) to jet energy measurement in future particle accelerator experiments. A highly granular electromagnetic calorimeter is central to this program and two prototypes , based on two different technologies were consequently built. Both are sampling calorimeters: Silicon-Tungsten and scintillator-Tungsten with MPPC read out, respectively. They were tested extensively with particle beams, their performance (linearity, resolution, uniformity) measured and found to be within the PFA requirements. We will report on the measured performance of the prototypes, as well as on the planned future R&D developments.

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