

Calorimeter energy calibration using the energy conservation law

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A calorimeter energy calibration method has been developed for ILC detectors. The method uses the center mass energy of the accelerator as a constraint. It was shown that using the energy conservation law it is possible to do an ECAL and HCAL cross calibration in a way to reach a good energy resolution for the simple calorimeter hit energy sum.

The Application of this method in LDC detector geometries optimization will be discussed.

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