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Low Energy Reconstrucion of π^0 Decay Photons in ND280, the T2K Near Detector

The ND280 uses different sub-detectors in an attempt to reconstruct particle tracks as accurately as possible for analysis and in
order to understand the neutrino beam structure before oscillation occurs. Integral to this process are the Electromagnetic
Calorimeters (ECals), used for the reconstruction of neutral particles and the identification of charged particles. Some analyses,
such as π^0 reconstruction (imperative for understanding systematics and background), rely heavily on the ECals, so their
importance cannot be underestimated. Here their effectiveness at reconstructing low energy photons is considered in order to
evaluate which parts of the process could be improved and facilitate further development of the reconstruction algorithms.

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