Electron reconstruction

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Monte Carlo samples

- 50k single electrons shot from (0, 0, 0):
  - $1 < p_e < 1500$ GeV;
  - $10^\circ < \theta_e < 170^\circ$;
  - $0^\circ < \phi_e < 360^\circ$.

- 50k events reconstructed w/o BIB.

- 46k events reconstructed with BIB overlaid.
Event reconstruction

- **Track reconstruction:**
  - Double-Layer Filter ON;
  - ACTS tracking.

- **Calorimeter reconstruction:**
  - ECAL and HCAL hit $E_{\text{thr}} = 2$ MeV;
  - hit clustering: default Pandora settings.
Electron ID w/o BIB

- Electron identification:
  - angular matching ($\Delta R < 0.1$) between the reconstructed ECAL clusters and a track having a $\chi^2$/dof < 10.
Electron ID w/ BIB

- Electron identification:
  - angular matching ($\Delta R < 0.1$) between the reconstructed ECAL clusters and a track having a $\chi^2$/dof < 10.
Total electron reco efficiency
Backup
Figure A.3: Illustration of selected angles in CLICdet.