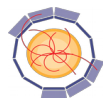


# SiW ECAL

Analysis BT2017 working group

A. Irles, 30<sup>th</sup> November 2017



AIDA<sup>2020</sup>



- IEEE2017 proceeding submitted: <https://agenda.linearcollider.org/event/7773/>
- CHEF proceeding writing is ongoing: use IEEE2017 as starting point but making less emphasis in the introduction and the general overview of the SiW-ECAL project and more in beam test
  - Other talks (i.e. Vladik's) where more focused in the general picture of the project
  - Deadline 15<sup>th</sup> december.
- Commissioning procedure update → integrated in calicoes.
  - <https://twiki.cern.ch/twiki/bin/view/CALICE/CommissioningProcedure> Comments are wellcome.
  - To do list: optimize find noisy algorithms and fix some loose ends in the scurve analysis.
  - Also available as offline tool: <https://github.com/SiWECAL-TestBeam/tpecal/> branch → commissioning2017

## ● Some mistakes in the event building scripts detected

- Major bug in the event building python script → merging bcids bug solved.
- Bug in the event building python script when using very long run files (crash while counting the spill) → solved
- Error when subtracting pedestals → the script assumed that we always have pedestal data.
  - In very rare cases we can have chips where the pedestal was not calculated for one SCA (chip 15, layer 7) → I take the average value for all sca's with calculated pedestals.
  - Chip 10 of layer 1 is not fully masked but it is misworking and pedestals are not well calculated for this chip (multiple peak spectra) → I tagged it as masked
- Error when saving the calibration files (naming error)

## ● New data processed → pass3

- Minor improvements in the RAW2ROOT.cc (profiting that I had to create a new pass for the data)

## ● Software updated:

- Debugging event building and pedestal subtraction, mip calibration etc
- Final (hopefully) pedestal, mip and masked list of channels uploaded.
- Debugging and improvements of the analysis tools.

 <https://github.com/SiWECAL-TestBeam/SiWECAL-TB-analysis>

- Simulation status → D. Jeans
- MIP efficiency and more pedestal & noise studies → A. Irles
- Beam test plans → all