Summary Thursday

LCFIPlus plans

- vertex finding improvements
- flavour separation for 0vtx jets
- Vertex mass recovery
- PID
- short-term:
  - adaptive vertex finding
  - soft lepton tagger using PID: put p_l in MVA
- middle-term:
  - BNess tagger: add “CNess”? -> after WS
  - vertex mass: Graham or own pi0 reco? ->
- for testing: use samples as in DBD!
- enable vertex fit to read track collection directly
- Svatislav: test track selection using Taikan’s
- check if V0 PandoraPFO has end/start vertex correctly

Vertex options

- CMOS: digital (!)
- CMOS 1-5: DBD – “aggressive-realistic”
- add CMOS 6: single BX , 3/3 um “dream”
- CMOS 0 = DBD
- Mikael: useful point res limit by material thickness – how thin we can make it? (SGV ;-))
- 6 fermion study:
  - new: take decays in flight into account
  - new: at least 4 Si hits!

Vertex detector

- mini-vector tracking suffers from too small overlap between layers -> for certain momenta no min-vectors found
- NOT a hardware problem, just software
- mini-vector clearly better

V0

- most information NOT filled when correctly
  -> todo: fix PFOCreator.cc

ILDPerformance