

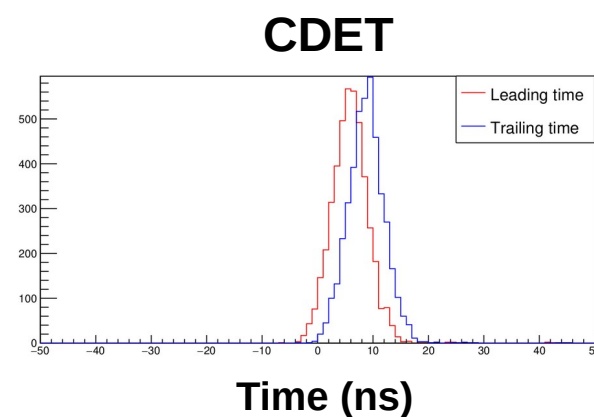
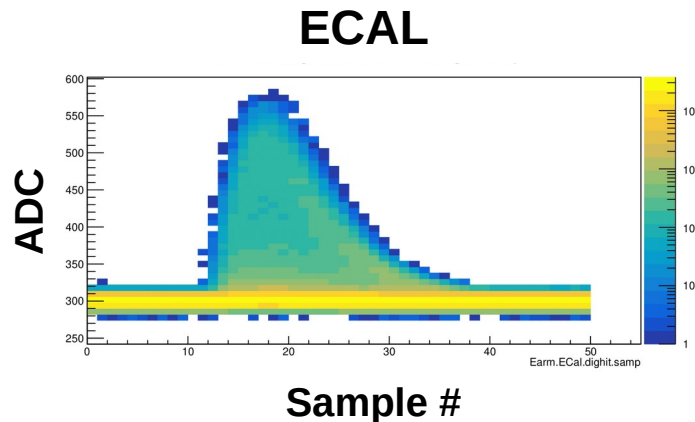
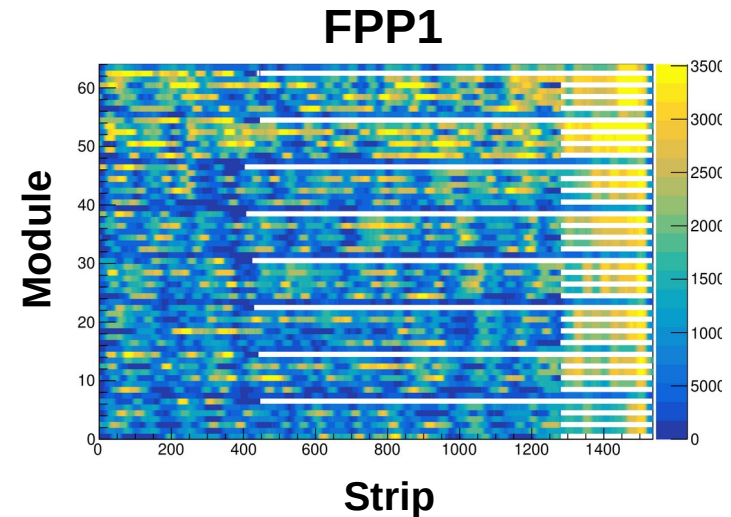
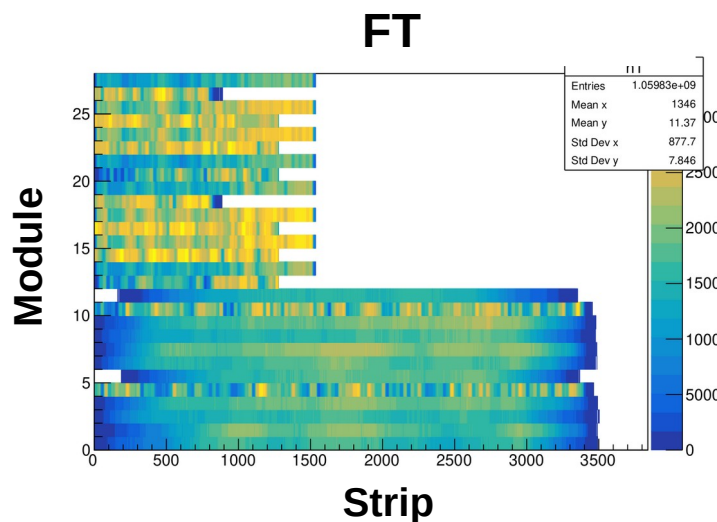
# GEP digitization software

**Eric Fuchey**  
**William & Mary**



# Update on libbsdig for GEP

- **Libbsdig:** Most up to date version at: <https://github.com/efuchey/libbsdig>
  - Digitization for all GEP detectors;
  - Database for all three GEP configurations in [db\\_gep\\* conf\\_single-analyzer.dat](#)
  - Includes XW GEMs in Front Tracker (UV, UV, XW, UV, UV, XW, XY large, XY large)



# Update on SimDecoder for GEP

- **SBS-offline:** Most up to date version at: <https://github.com/efuchey/SBS-offline>
  - Tree for GEP digitized detectors added;
    - ◆ Selected by SBSSimFile by reading the experiment flag in db\_run.dat
  - GEP detectors unfolded in SBSSimDecoder;
    - ◆ HCAL code in SBSSimDecoder duplicated for GMN tree and GEP tree;
    - ◆ Code for other detectors is included and compiles, requires debugging;
- **SBS-replay:** <https://github.com/efuchey/SBS-replay>
  - Replay for GEP: [replay gep mc.C](#)
  - MC Databases for [FT](#), [FPP](#)
  - TODO:
    - ◆ Add ECAL, CDET databases;
    - ◆ Complete simcratemap;
    - ◆ Debug FT, FPP databases;