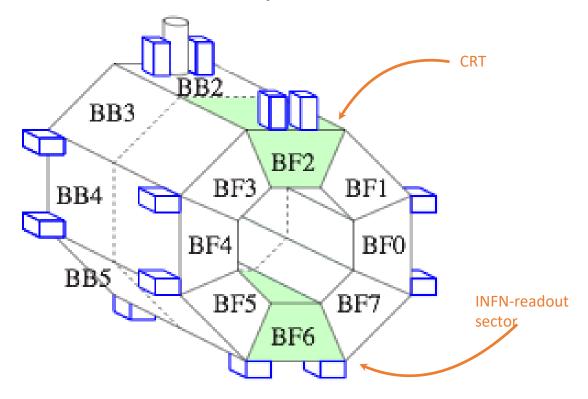
KLM Summary

UH Update 3/08/2017 JST

Post B2GM Highlights

- Populated BF6 RPCs- INFN
 - Debug of DAQ and UT3 streams
 - Crate fully functional except BF6L13out
- Debug of DAQ: all barrel (BF+BB) can take data non-stop (UH-DAQ)
 - Charge distributions were plotted
 - Cosmics tracks for BF2+BF6 RPC
- Created a shared dashboard for readout/remote ops (UH-KEK)
 - Located on a PC in B2, shared remote desktop style access
 - Created sheetsheet for data taking
- Barrel and Endcap FTSWs have been separated
- (191 for B and 232 for E)

Installation in BKLM Cosmic Ray Test Stand

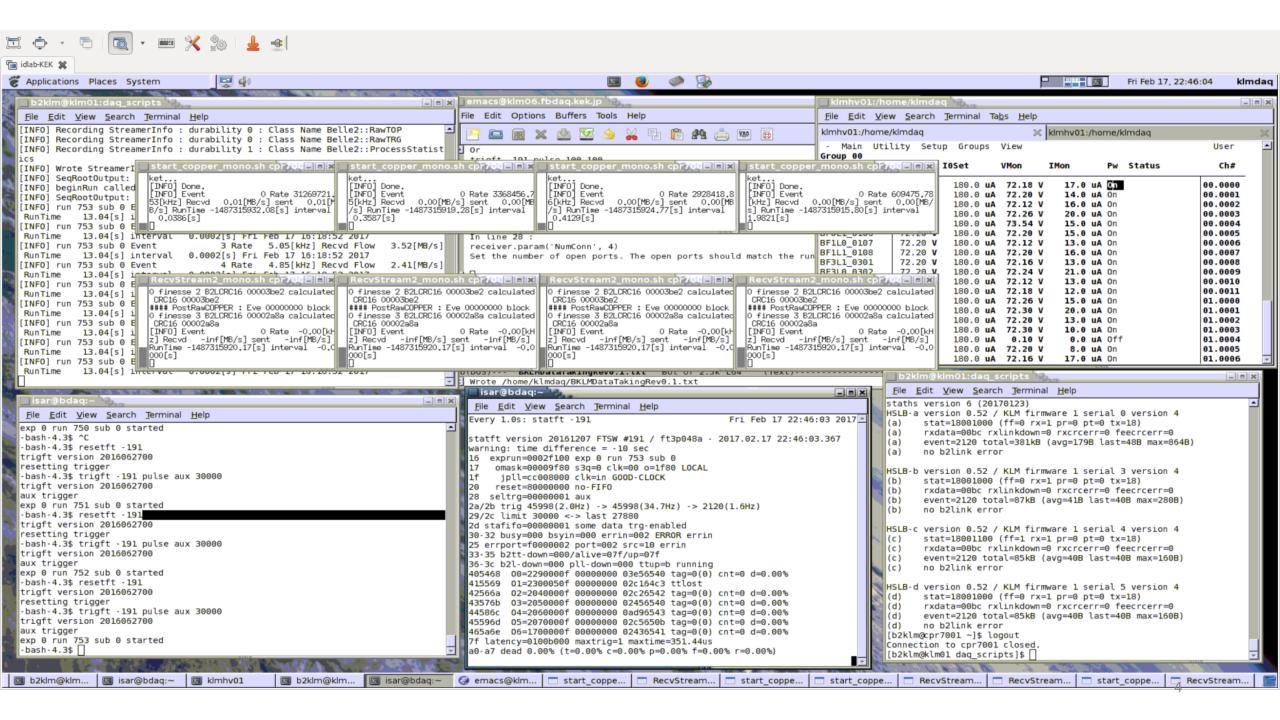


CRT (octant BF2 = top forward):

 two layers of scintillators – used for trigger – with Hawaii readout + 13 layers of RPCs with Indiana readout

INFN-test sector (octant BF6 = bottom forward):

 two layers of scintillators with Hawaii readout + 13 layers of RPCs with INFN readout



Last week (March 1-8,2017)

- AUX trigger stopped working right after Isar left KEK
 - Troubleshooting remotely
 - Need to find a way to scan trigger delays until scint data shows up
 - Use chipscope for coarse tune
 - Maybe use multiple slow control files to fine tune
- We saw tracks in both BF2+BF6 instrumented RPC modules.
- We took data at ~100Hz rate where re just read out charge values from all channels (forced trigs)
- At 100Hz + system would become unstable and crash- we have some idea why it is happening in FEE FW

Last week (March 1-8,2017)

- Working with Dmitri at UH:
 - Bring up of Ecap scripts
 - New DAQ scripts in place, slow control for Endcap OK
 - DAQ didn't work:
 - Need debug connection for ECAP FEEs- Dmitri to setup
- Barrel:
 - Some 6U barrel crates had DAQ fiber issue on detector side as per Yinghui
 - Dmitri will help investigate why we cannot take data from Barrel now
- At DAQ session:
 - 1. We promised to attach KLM to back end as soon as possible
 - 2. They asked us to start using Konno-san's SLC interface to start/stop runs

DAQ fiber connection issue on DC13 on detector- photo by Yinghui



Plans we promised at 3/1/17 DAQ session

- 1. Make sure the pocketDAQ system is working again for all barrel
 - Some sectors stopped working after Isar left KEK
 - This should be done by ~3/2 JST-
- 2. Once system is stable, we will try to connect to backend
 - This will require coordination w all groups
 - Hopefully should be ready to do so ~3/9 JST
- 3. Once operation is verified we will disconnect from backend
 - Improve FW for readout speed
 - Implement Slow Control GUI
 - New FEE/SiPM calibration sets will be prepared
 - Dates: 3/15/17-5/15/17