

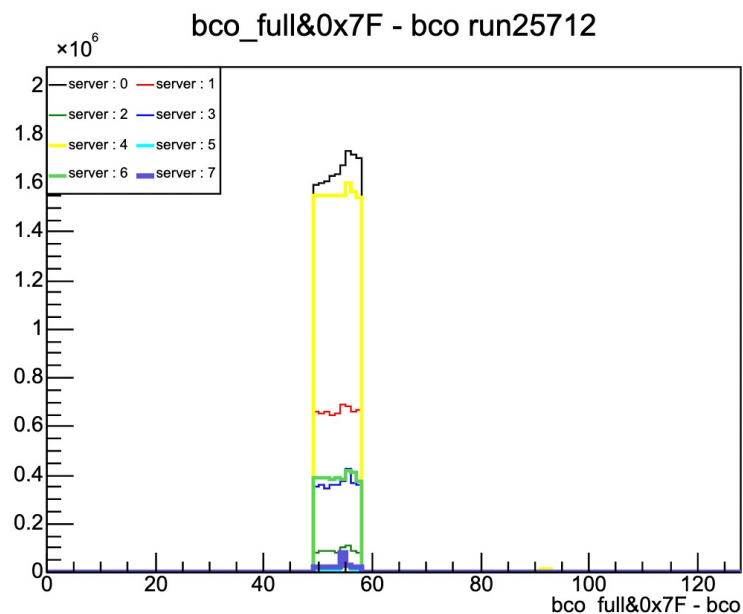
Online software update

Jaein Hwang

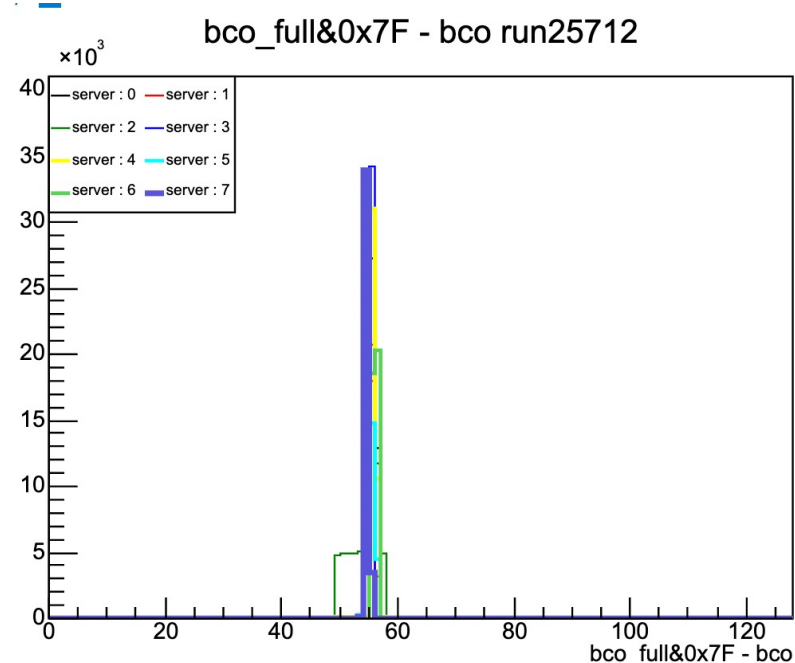
17 August 2023



BCO alignment check in cosmics run



ADC0 cut



Code location

/home/phnxrc/INTT/jaein/BCO_ana/bcofull_bco_4_ana.cc

How to use

```
root -l bcofull_bco_4_ana.cc
```

```
root [1] bcofull_bco_felix(runnumber)
```

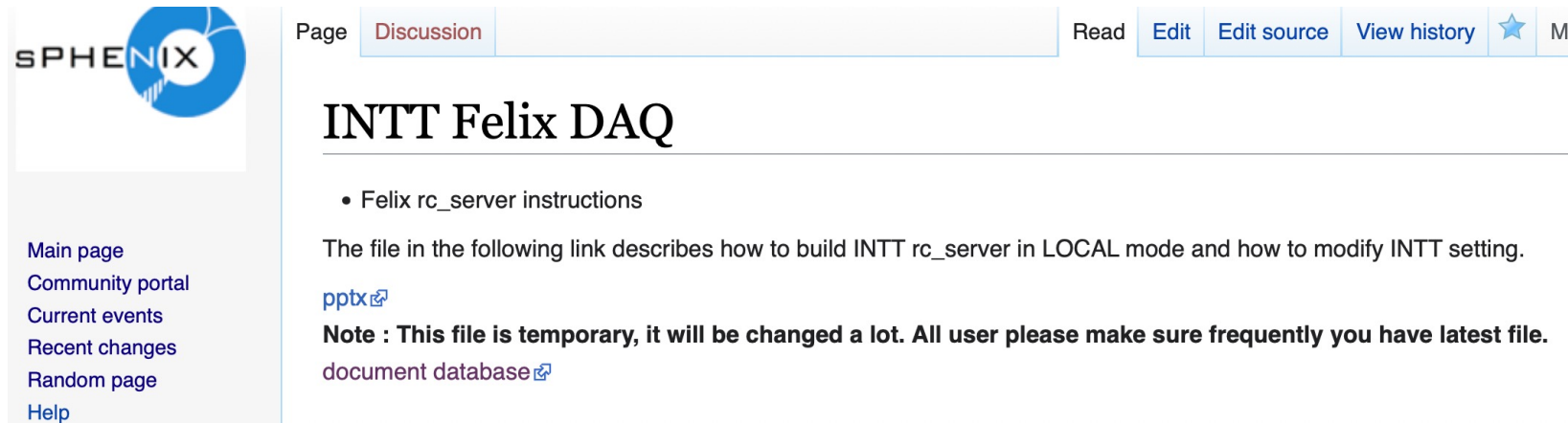
File location

/home/phnxrc/INTT/jaein/BCO_ana/rootfile (root file)

/home/phnxrc/INTT/jaein/BCO_ana/plot (jpg plot)

DAQ instructions in local mode

- https://wiki.sphenix.bnl.gov/index.php/INTT_Felix_DAQ
- **This file is temporary!**



Some scripts used in Global mode

1. `/home/phnxrc/operations/INTT/intt_gtm_setup.sh` for gtm setup
2. `/home/phnxrc/INTT/rcdaq/setup_intt_detector.sh` for detector configuration
3. `/home/phnxrc/operations/INTT/intt_setup.sh` for rcdaq setup

Hot Channel Generator(need to improve)

Code location

/home/phnxc/INTT/jaein/HotChannelFinder/HotChannel.C

How to use

Change the runnumber in /home/phnxc/INTT/jaein/HotChannelFinder run.sh

bash run.sh

```
1 #!/bin/bash
2 runnumber=25712
3 root -l 'HotChannel.C('$runnumber',0)' &
4 root -l 'HotChannel.C('$runnumber',1)' &
5 root -l 'HotChannel.C('$runnumber',2)' &
6 root -l 'HotChannel.C('$runnumber',3)' &
7 root -l 'HotChannel.C('$runnumber',4)' &
8 root -l 'HotChannel.C('$runnumber',5)' &
9 root -l 'HotChannel.C('$runnumber',6)' &
10 root -l 'HotChannel.C('$runnumber',7)' &
```

File location

/home/phnxc/INTT/jaein/HotChannelFinder/hotchannelmap

File Name

inttx-000{runnumber}-0000_hot_list.txt

```
#include "mapping.h"
#include <iostream>
#include <map>
#include <string>
#include <vector>

#include "TFile.h"
#include "TTree.h"
#include "TCanvas.h"
#include "TH1D.h"
```

```
int chip = 26;
int mod = 14;
int entry_cut = 50; // entry cut for cosmo data
double ratio_cut = 0.05; // ratio cut
```

Definition of hot channel

of hits on a channel is greater than **5%** of the total # of hits on a chip with that channel

(arbitrary)