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RICH 2014 Testbeam Monitoring Software

Summary

How to run the monitoring software (These instructions are valid if you are on shift, DON'T modify any files in this location!)

Connect to lxplus with lhcb rich account:

```
ssh -Y lhcb rich@lxplus.cern.ch
```

Type:

```
SetupProject Urania v2r4  
  
cd $TESTBEAM  
  
source run.sh RUNNUMBER  
  
source run_threshold.sh RUNNUMBER
```

Two canvas will open on your screen with the 2D hitmaps of the 4 MaPMTs and with the distributions of the number of hits for each of the PMT.

If you want to re-open the plots of an already processed run, you just have to type:

```
source mapmt.sh RUNNUMBER
```

If you want to re-open the plots of an already processed run and superimpose the gain of the PMTS, you just have to type:

```
source mapmt_gain.sh RUNNUMBER
```

How to download the monitoring software on your own account (to run on your own and if you want to modify!)

Connect to lxplus with your own account:

```
ssh -Y username@lxplus.cern.ch  
  
SetupProject Urania v2r4 --build-env  
  
getpack Rich/RichTestBeam2014  
  
cd Rich/RichTestBeam2014
```

At the moment there are two folders:

```
treeMaker with the code which creates a tree from the mdf file  
  
histMaker with the code which produces some useful histograms
```

You can just compile the code with the ``make" command inside the folders. New folders will be added soon.

Where can I find the data?

You can find all the useful files on eos:

Data Path for mdf files:

```
eos ls /eos/lhcb/testbeam/rich/tb2014/data/input
```

Data Path for root files:

```
eos ls /eos/lhcb/testbeam/rich/tb2014/data/tree
```

Data Path for histo files:

```
eos ls /eos/lhcb/testbeam/rich/tb2014/data/histo
```

You can find root and histo files on the lhcb rich work directory on lxplus:

Data Path for root files:

```
/afs/cern.ch/work/l/lhcb rich/public/tb2014/data/tree/
```

Data Path for histo files:

```
/afs/cern.ch/work/l/lhcb rich/public/tb2014/data/histo/
```

-- RobertaCardinale - 23 Oct 2014

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