

## How to start DAQ

Should use `richtbuser`, the another usual password (hints: radiator names)

```
ssh -X richtbuser@128.141.105.89
start_daqqui
```

## How to check data files

```
ssh -X richtbuser@128.141.105.89
cd /work/tb2016/data
ls -ltrh *.mdf
```

## How to start online monitoring

Open a new terminal and start the PBW monitoring based on Java

```
ssh -X richtbuser@128.141.105.89
cd ~/Public/tb2015/PBW/
java -jar pbw.jar
```

In the `Data source` combo box enter or select `http://localhost:7999/` then click `Go`. It is more efficient to run it on the DAQ PC but it can also run on a different machine with a suitable adjustment to the data source URL.

## How to produce offline root files

Should use the `lhcbri`, the usual passwords.

```
ssh -X lhcbri@lxplus.cern.ch
SetupUrania v2r4
cd ~/cmtuser/Urania_v2r4/Rich/RichTestBeam2014/
source runALLtb2016.sh runNumber
```

## How to compare occupancy maps between runs

Example of runs 1234 and 1235

Only works on LXplus, logged in as `lhcbri`

The first run given will be blue, the second red.

Note the scale as printed on the terminal (exponents are usually hidden on the pad).

A noticeable movement (ring on entirely different pixels) corresponds to a scale of 0.1

```
ssh -X lhcbri@lxplus.cern.ch
cd /afs/cern.ch/work/l/lhcbri/public/tb2015/compareruns/
./run.sh 1234 1235
```

## How to display the SPS page 1 stream

You can of course see this page on the [Vistars](#) web page but to get a real time version you can use VLC:

vlc udp://@multicast-bevpsps1:1234

This probably does not work outside the CERN network. -- StephenWotton - 2016-06-22

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This topic: LHCb > JiboInstructions

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