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# How to run a threshold scan

Click on the Threshold scan button on the RICH control panel. Set the threshold scan parameters and the number of events (that should be equal to the limited number of triggers you have set in SODIN). Click Apply and Start.

Data are first written in the /localdisk folder, then a cross check is performed to check if the file corresponding to the threshold step has been written, and then moved to the folder /localdisk/thresholdScans/"runNumber".

If the claro failed to program also after the automatic resetting procedure the scan stops and a message will appear. If the files have not been written you can click the interrupt button. In these cases first you have to modify the run number (this is incremented with the end of the threshold scan) using the PARA module (DPT lbRichRunSettings, DPE: RunNumber) to the one used before (run number shown in the logbook minus 1). This is needed to make easier the data processing. Restart the threshold scan from the corresponding threshold value.

# How to analyze a threshold scan

Type

```
kinit lhcbrieh
```

to allow copy on eos

Move to /home/Packages/offline/test and type

```
./runTHrange.sh "runNumber" "minThreshold" "maxThreshold"
```

-- GiovanniCavallero - 2017-08-11

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This topic: LHCb > RichTestBeamMiniDAQ\_Threshold

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