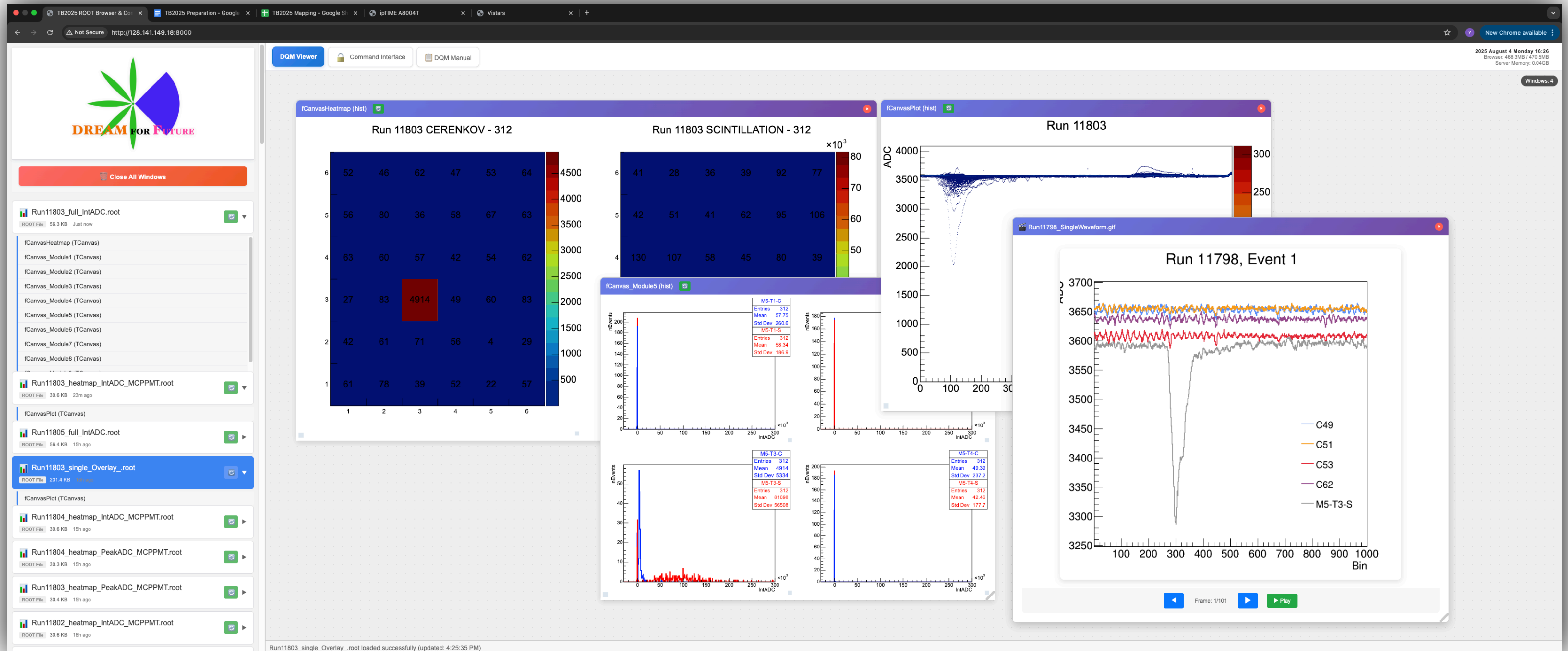


DQM manual


DQM viewer (<http://128.141.149.18:8000>)

- Can access inside CERN network



Command Panel

- Execute the command with command builder



Close All Windows

Run11803_full_IntADC.root

ROOT File 56.3 KB Just now

fCanvasHeatmap (TCanvas)

fCanvas_Module1 (TCanvas)

fCanvas_Module2 (TCanvas)

fCanvas_Module3 (TCanvas)

fCanvas_Module4 (TCanvas)

fCanvas_Module5 (TCanvas)

fCanvas_Module6 (TCanvas)

fCanvas_Module7 (TCanvas)

fCanvas_Module8 (TCanvas)

Run11803_heatmap_IntADC_MCPPMT.root

ROOT File 30.6 KB 23m ago

fCanvasPlot (TCanvas)

Run11805_full_IntADC.root

ROOT File 56.4 KB 15h ago

Run11803_single_Overlay_root

ROOT File 231.4 KB 10h ago

fCanvasPlot (TCanvas)

Run11804_heatmap_IntADC_MCPPMT.root

ROOT File 30.6 KB 15h ago

Run11804_heatmap_PeakADC_MCPPMT.root

ROOT File 30.3 KB 15h ago

Run11803_heatmap_PeakADC_MCPPMT.root

ROOT File 30.4 KB 15h ago

Run11802_heatmap_IntADC_MCPPMT.root

ROOT File 30.6 KB 16h ago

DQM ViewerCommand InterfaceDQM Manual

Enter command and press Enter to execute (most commands allowed, except rm and cd)

Welcome to TB2025 Command Interface
Environment initialization available - click 'Initialize Env' to setup required environment variables.
Most commands are allowed except: rm, cd (for security)
Type a command and press Enter to execute.

Executing monit command:

```
$. /monit --RunNumber 11803 --type full --method IntADC
$. /monit --RunNumber 11803 --type full --method IntADC
Loading mapping file : ../mapping/mapping_TB2025_v1.root
file scanning : /Users/yhep/scratch/YUdaq/Run_11803/Run_11803_Wave/Run_11803_Wave_MID_4/Run_11803_Wave_MID_4_FILE_0.dat - Max Event : 312 / 312
file scanning : /Users/yhep/scratch/YUdaq/Run_11803/Run_11803_Wave/Run_11803_Wave_MID_7/Run_11803_Wave_MID_7_FILE_0.dat - Max Event : 312 / 312
file scanning : /Users/yhep/scratch/YUdaq/Run_11803/Run_11803_Wave/Run_11803_Wave_MID_5/Run_11803_Wave_MID_5_FILE_0.dat - Max Event : 312 / 312
file scanning : /Users/yhep/scratch/YUdaq/Run_11803/Run_11803_Wave/Run_11803_Wave_MID_3/Run_11803_Wave_MID_3_FILE_0.dat - Max Event : 312 / 312
file scanning : /Users/yhep/scratch/YUdaq/Run_11803/Run_11803_Wave/Run_11803_Wave_MID_6/Run_11803_Wave_MID_6_FILE_0.dat - Max Event : 312 / 312
310 / 312 events 0:00 left (99.4 %) | 31.4 GB / 32.0 GB (98.23 %) | Current Process: 207.89 MB (0.63 %)
Command exited with code: 1
```

Monit Command Builder

Run #:11803Type:fullMethod:IntADC

Module:

Optional: single channel name (e.g. M1-T1-S) for --type single, module name (e.g. M5) for --type module, Generic, MCPPMT for --type heatmap

Max Event:

Optional: maximum number of events to process

Skip Event:

Optional: number of events to skip

☐ LIVE☐ AUX☐ AUXcut

EXECUTE ./MONIT

Generated Command:

```
./monit --RunNumber 11803 --type full --method IntADC
```

Run11803_single_Overlay_root loaded successfully (updated: 4:25:35 PM)

How to do DQM

1. Execute the command with command builder

Monit Command Builder

Run #: Type: Method:

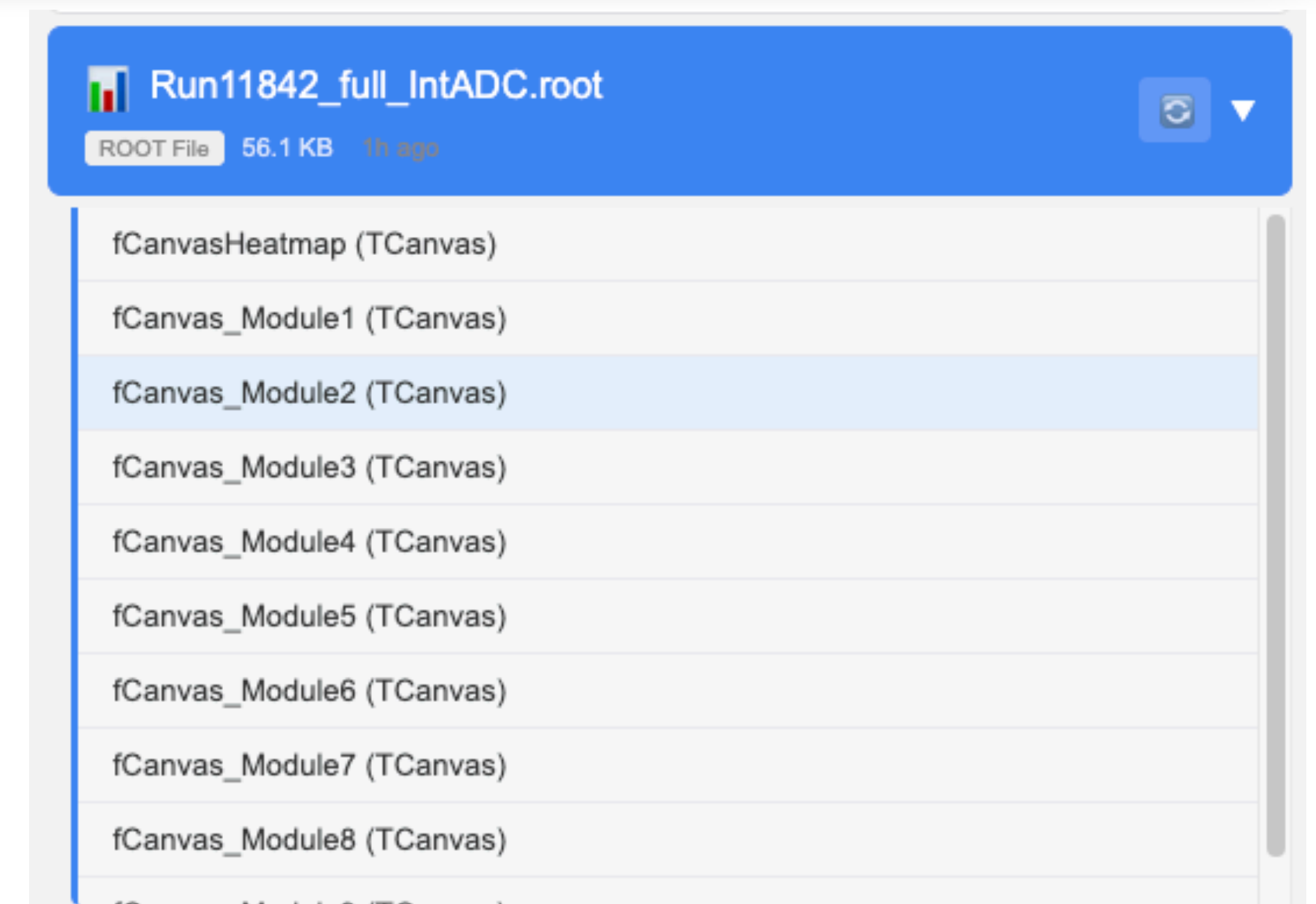
Module:

Max Event: Skip Event:

☐ LIVE ☐ AUX ☐ AUXcut

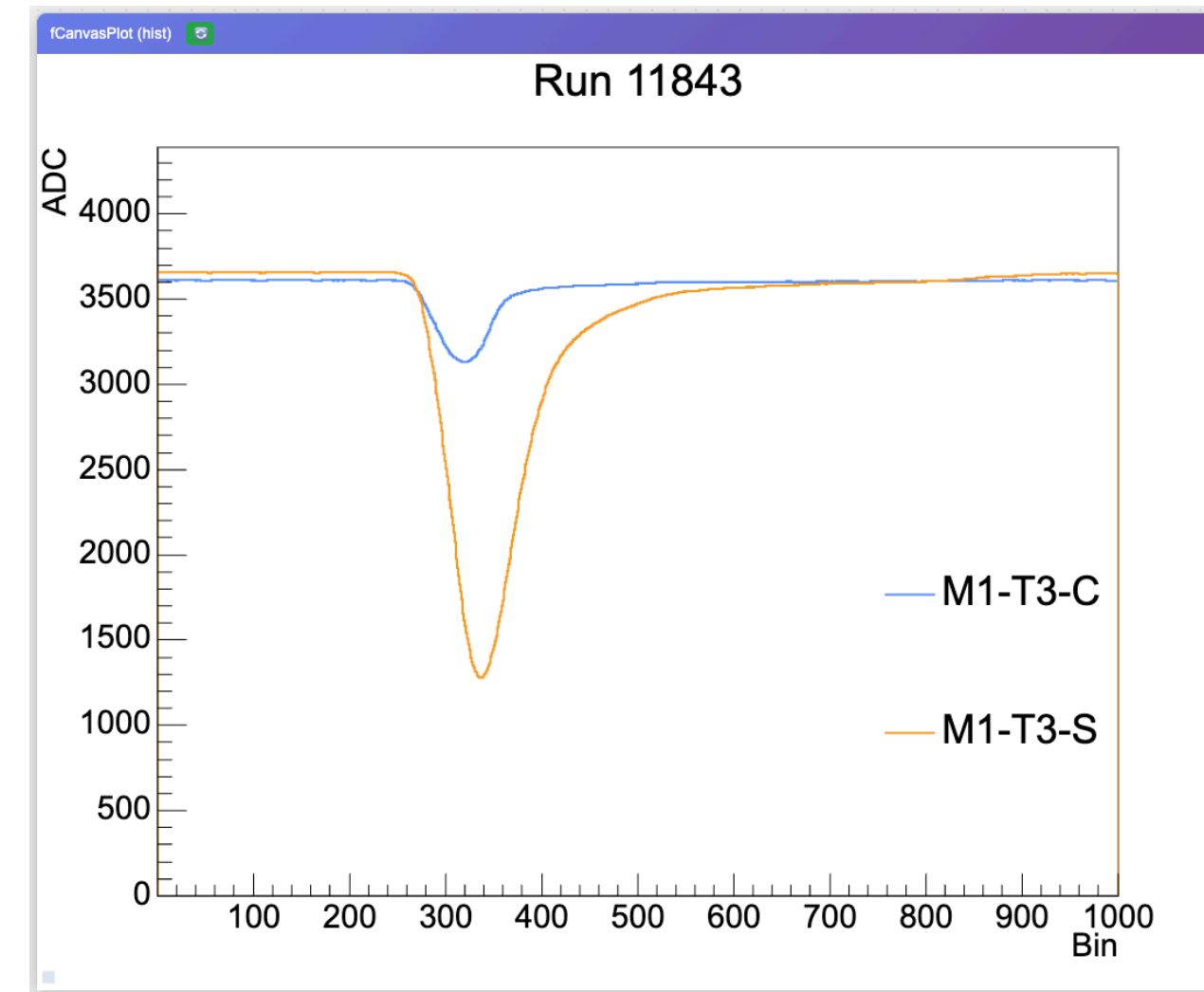
Generated Command:
`./monit --RunNumber 99999 --type module --method IntADC`

2. Click the plot at sidebar



How to do DQM

3. Check the histogram with shift leader




4. Kill the process before starting new DQM

Kill Process (32780)

Kill All ./monit

Command Builder

- Execute the command with command builder

 **Monit Command Builder**

Run Number

Run #:
99999

Type:
module


Method:
IntADC

Module:
Optional: single channel name (e.g. M1-T1-S) for --type single, module name (e.g. M5) for --type module, Generic, MCPMT for --type heatmap

Max Event:
Optional: maximum number of events to process

Skip Event:
Optional: number of events to skip

☐ LIVE ☐ AUX ☐ AUXcut


 **EXECUTE ./MONIT**

Generated Command:

```
./monit --RunNumber 99999 --type module --method IntADC
```

Command Builder

- Execute the command with command builder

 **Monit Command Builder**

Run #:

99999

Type:

module

single

✓ module

heatmap

full

Module:

Optional: single channel name (e.g. M1-T1-S) for --type single, module name (e.g. M5) for --type module, Generic, MCPPIV1 for --type heatmap

Max Event:

Optional: maximum number of events to process

Skip Event:

Optional: number of events to skip

☐ LIVE

☐ AUX

☐ AUXcut


▶ EXECUTE ./MONIT

Generated Command:

```
./monit --RunNumber 99999 --type module --method IntADC
```

Command Builder

- Execute the command with command builder

 **Monit Command Builder**

Run #:

Type:

module

Method:

✓ IntADC

PeakADC

Avg

Overlay

Waveform

Method:

IntADC

Module:


Max Event:

Skip Event:

☐ LIVE

☐ AUX

☐ AUXcut


 **EXECUTE ./MONIT**

Generated Command:

```
./monit --RunNumber 99999 --type module --method IntADC
```


Command Builder

- Execute the command with command builder

 **Monit Command Builder**

Run #:

99999

Type:

module

Method:

IntADC

Module:

Optional: single channel name (e.g. M1-T1-S) for --type single, module name (e.g. M5) for --type module, Generic, MCPMT for --type heatmap

Max Event:

Optional: maximum number of events to process


Skip Event:

Optional: number of events to skip

☐ LIVE

☐ AUX

☐ AUXcut


 **EXECUTE ./MONIT**

Generated Command:

```
./monit --RunNumber 99999 --type module --method IntADC
```

Command Builder

- Execute the command with command builder

 **Monit Command Builder**

Run #:

Type:

Method:

Module:


Max Event:

Skip Event:

☐ LIVE

☐ AUX

☐ AUXcut


 **EXECUTE ./MONIT**

Generated Command:

```
./monit --RunNumber 99999 --type module --method IntADC
```

Command Builder

- Execute the command with command builder

 **Monit Command Builder**

Run #:

Type:

Method:

Module:


Max Event:

Skip Event:

Live DQM
☐ LIVE

AUX. drawing
☐ AUX

Applying PID cut
☐ AUXcut

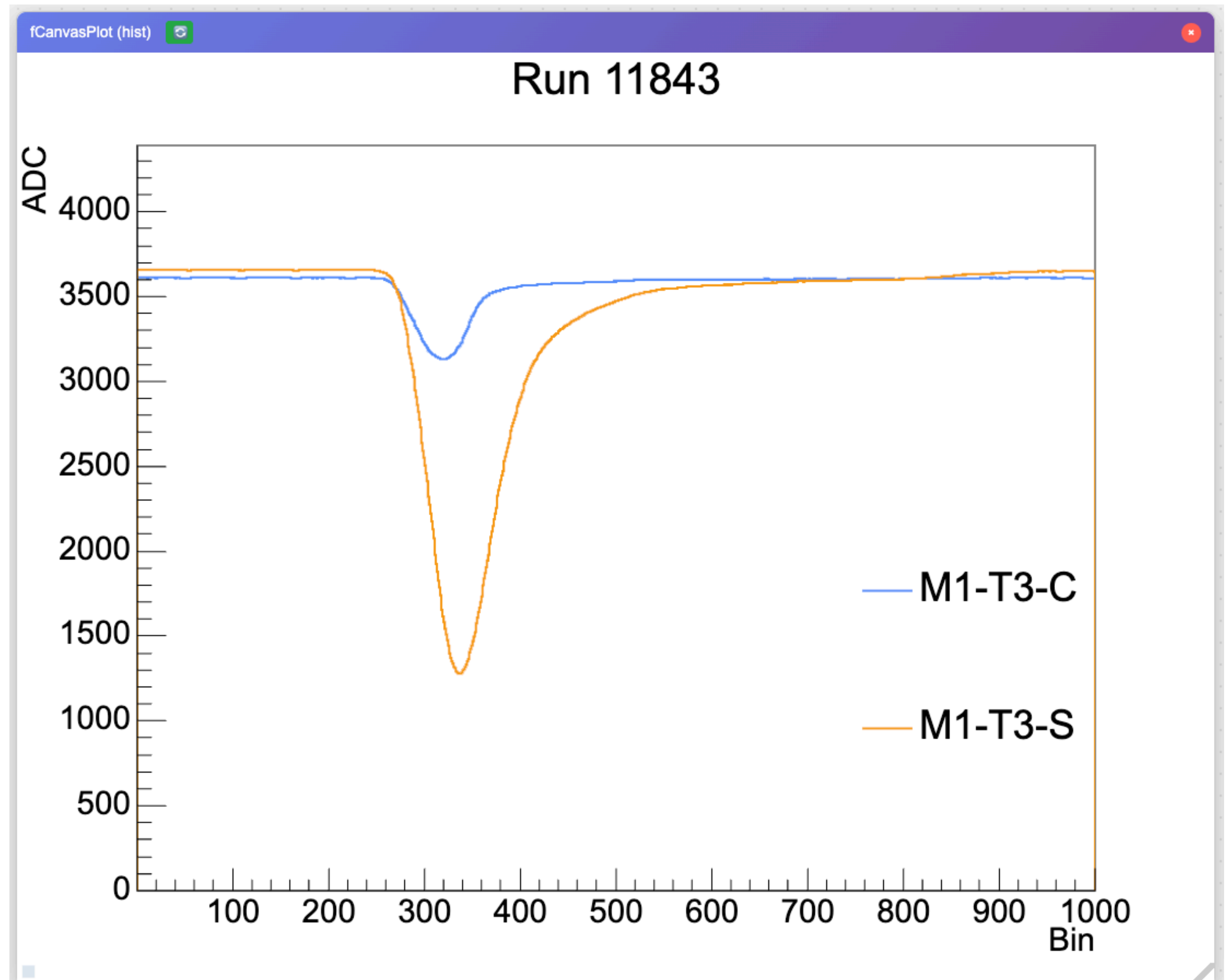
 **EXECUTE ./MONIT**

Generated Command:

```
./monit --RunNumber 99999 --type module --method IntADC
```

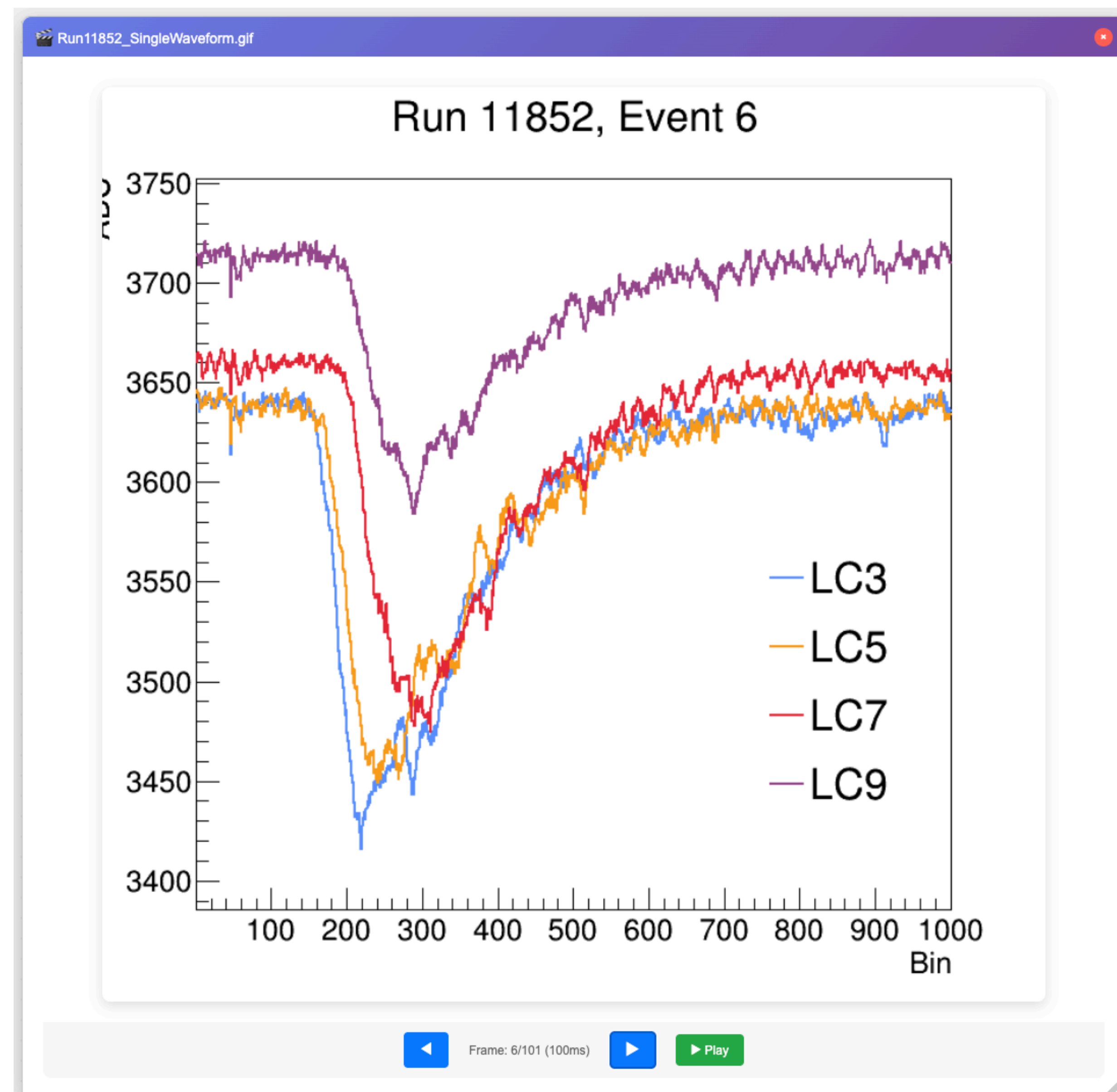
Example

- **Run #:** 11843
- **Type:** single
- **Method:** Avg
- **Module:** M1-T3-C M1-T3-S



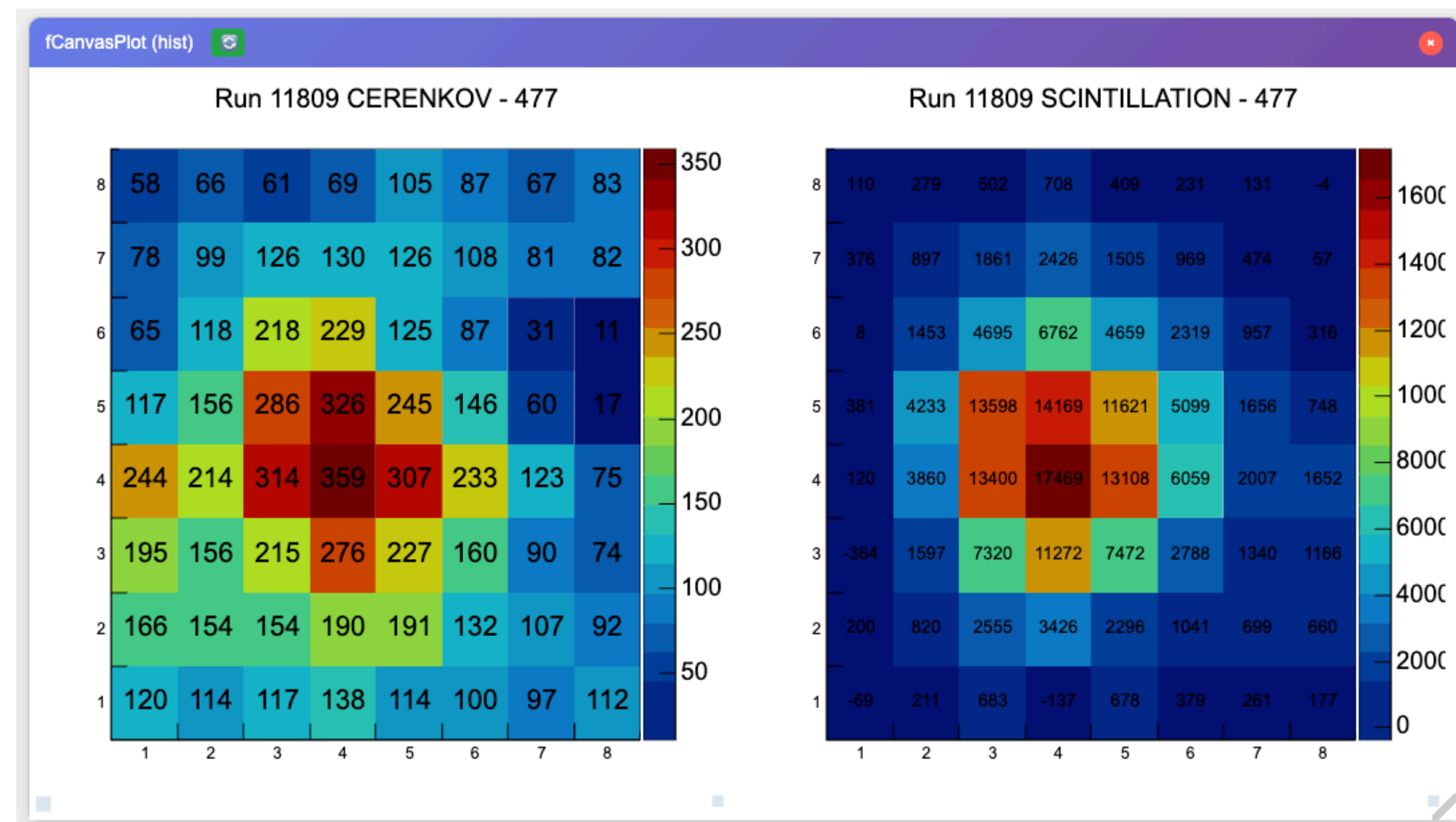
Example

- **Run #:** 11852
- **Type:** single
- **Method:** Waveform
- **Module:** LC3 LC5 LC7 LC9



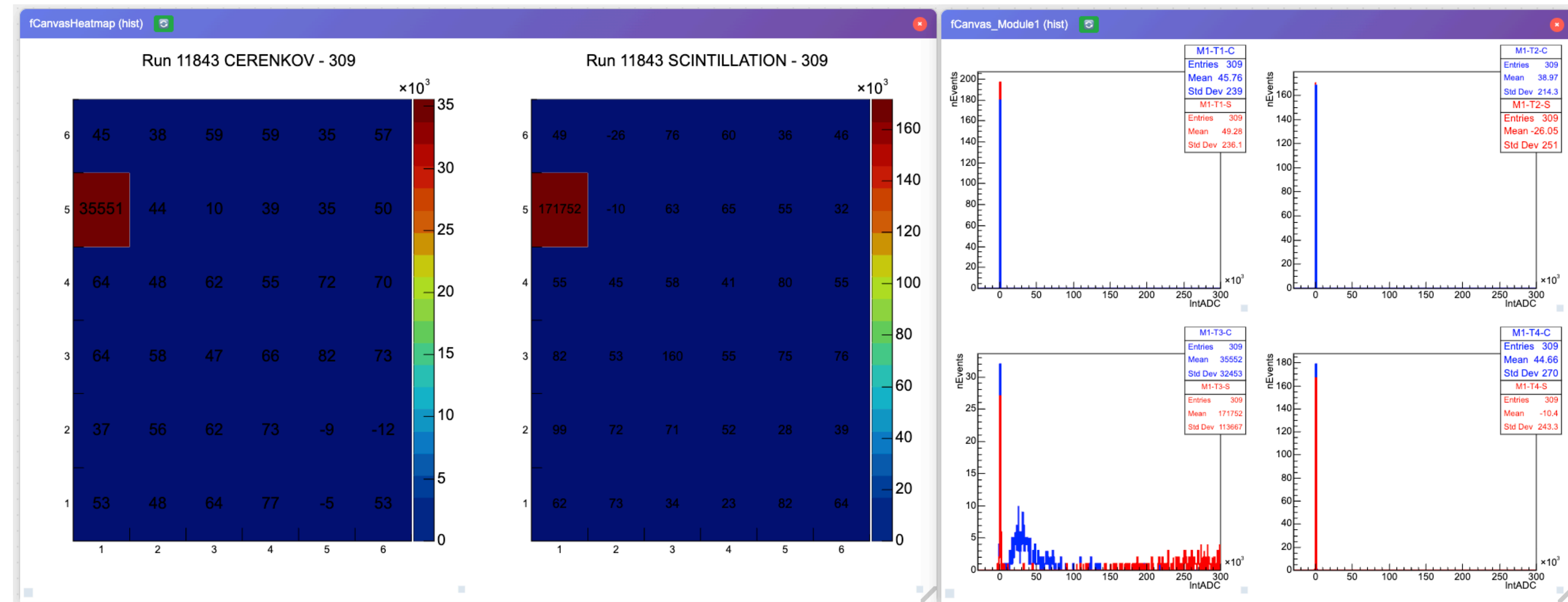
Example

- **Run #:** 11809
- **Type:** heatmap
- **Method:** IntADC
- **Module:** MCPPMT



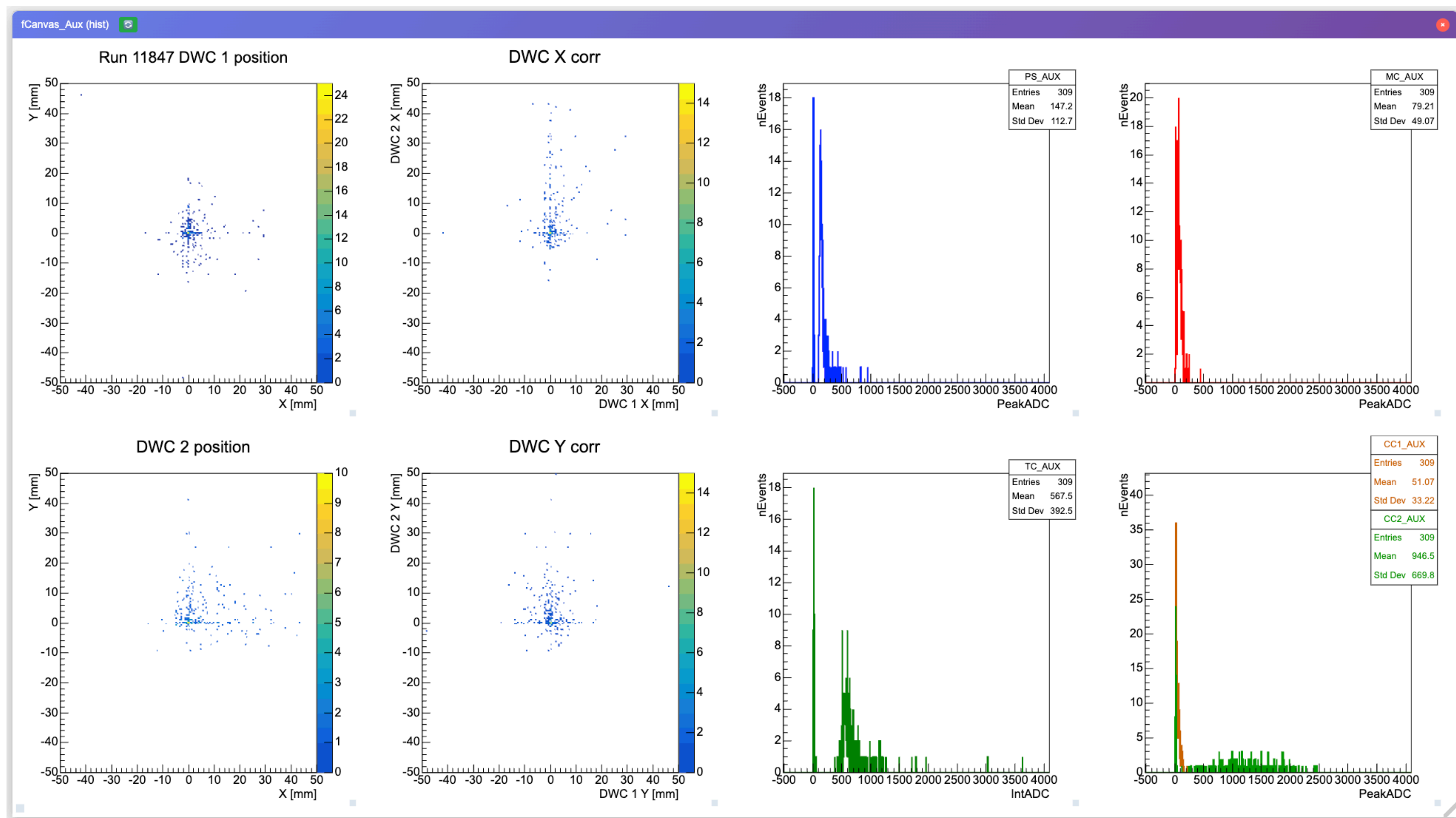
Example

- **Run #:** 11809
- **Type:** full
- **Method:** IntADC



Example

- When check the "AUX" checkbox, you can see the AUX detector plots



Example

- When check the "LIVE" checkbox, DQM automatically draw updated plots

```

-----
Waiting for file : 2025-08-04 21:21:44 |  O  |
Files are ready, updating plots.
 7000 / 7007 events  0:00 left (99.3 %) | 14.3 GB / 32.0 GB (44.74 %) | Current Process: 215.61 MB (0.66 %)
                               | MID10 |
-----
Waiting for file : 2025-08-04 21:21:48 |  O  |
Files are ready, updating plots.
 8000 / 8008 events  0:00 left (99.2 %) | 14.4 GB / 32.0 GB (45.09 %) | Current Process: 216.08 MB (0.66 %)
                               | MID10 |
-----
Waiting for file : 2025-08-04 21:21:51 |  O  |
Files are ready, updating plots.
 9000 / 9009 events  0:00 left (99.1 %) | 14.5 GB / 32.0 GB (45.24 %) | Current Process: 216.09 MB (0.66 %)
                               | MID10 |
-----
Waiting for file : 2025-08-04 21:21:55 |  O  |
Files are ready, updating plots.
10000 / 10010 events  0:00 left (99.0 %) | 14.5 GB / 32.0 GB (45.46 %) | Current Process: 216.31 MB (0.66 %)
                               | MID10 |
-----
Waiting for file : 2025-08-04 21:21:58 |  X  |
Waiting for file : 2025-08-04 21:22:03 |  X  |
Waiting for file : 2025-08-04 21:22:08 |  X  |

```


Trouble Shooting

- Failed to load plots → click re-load button

The screenshot displays a web application interface for managing ROOT files. On the left, a sidebar contains a logo with the text "DREAM FOR FUTURE" and a list of files. The first file, "Run11824_AUX.root", is highlighted in blue, and its reload button (a circular arrow icon) is circled in red. Below it, a list of other files is shown, each with a similar reload button. On the right, a large window titled "fCanvas_Aux" displays an error message: "Error loading object" and "Object: fCanvas_Aux". The error details state: "Error: Offset is outside the bounds of the DataView". Below the error message, a yellow box contains "Troubleshooting Tips" with a bulleted list: "The ROOT file might still be writing", "The object might be corrupted", "JSROOT might not support this object type", and "Try refreshing the file list". At the bottom of the error window, a green "Retry Loading" button (circled in red) and a blue "Inspect Object" button are visible.

Close All Windows

Run11824_AUX.root
ROOT File 25.2 KB Just now

fCanvas_Aux (TCanvas)

Run11824_full_PeakADC.root
ROOT File 55.1 KB Just now

Run11823_AUX.root
ROOT File 25.3 KB 3m ago

Run11823_full_PeakADC.root
ROOT File 55.0 KB 3m ago

Run11822_AUX.root
ROOT File 25.2 KB 5m ago

Run11822 full PeakADC.root

fCanvas_Aux

✖ Error loading object

Object: fCanvas_Aux

Error: Offset is outside the bounds of the DataView

💡 Troubleshooting Tips:

- The ROOT file might still be writing
- The object might be corrupted
- JSROOT might not support this object type
- Try refreshing the file list

Retry Loading **Inspect Object**

Trouble Shooting

- If there is any problem whiling running the DQM
 - Especially, when DQM stop working, call to below number **ANYTIME**

TROUBLE SHOOTING

Emergency Contact Numbers:

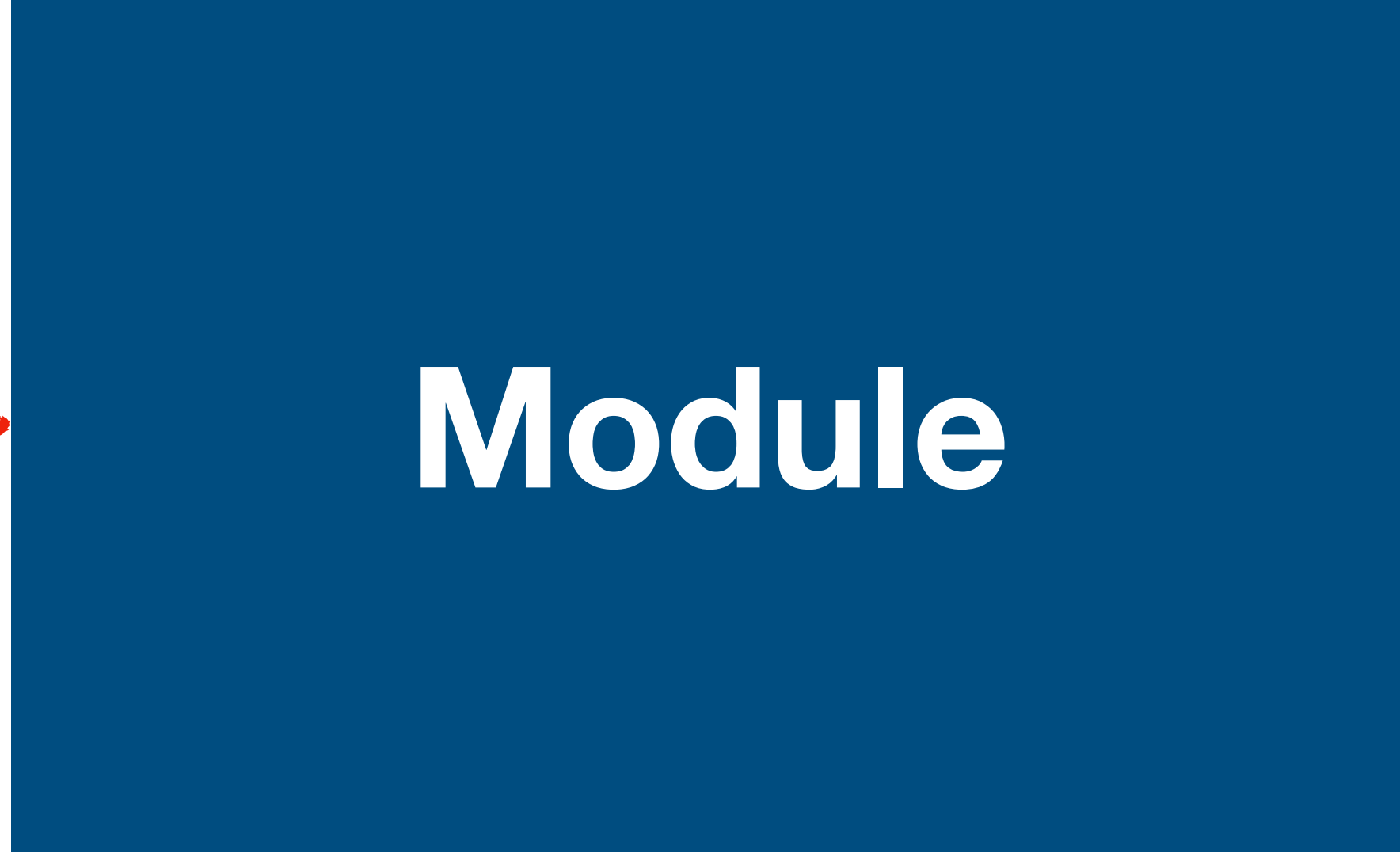
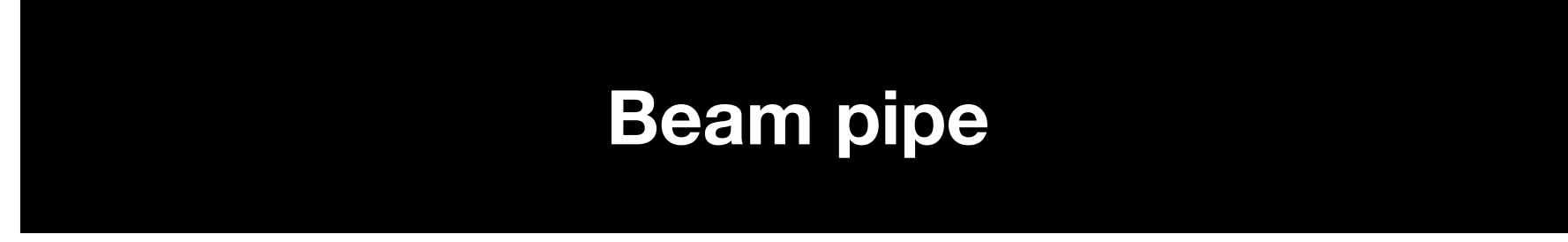
 +82-10-2415-4529

 +33-782977584

 CERN Phone: 69968

Back up

Upstream



Downstream