Status Of CLC Event Display

Dmitry Litvintsev

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CLC group weekly meeting

Status Of CLC Display

- Display CLC towers with ADC information
- Histogramming is incorporated into ED:
  - ✔ Profile Histograms `<ADC> vs chId`
  - ✔ `<ADC>` counts vs `chId`
  - ✔ `ADC` counts for each channel.
- ✌ CLC Event Display is in a good shape.

Basics

- **ED library source is in RootEventDisplay package.**
- **ED module `TEventDisplayModule` is a part of RootMods package. `evd.exe` executable are build from RootMods package.**
- **Source code is available from**
  `http://purdue-cdf.fnal.gov/CdfCode/source/RootEventDisplay/` **and**
  `http://purdue-cdf.fnal.gov/CdfCode/source/RootMods/`
- **Help is available *off-line* from Event Display Home Page**
  `http://www-cdf.fnal.gov/upgrades/computing/projects/display/EventDisplay.html`

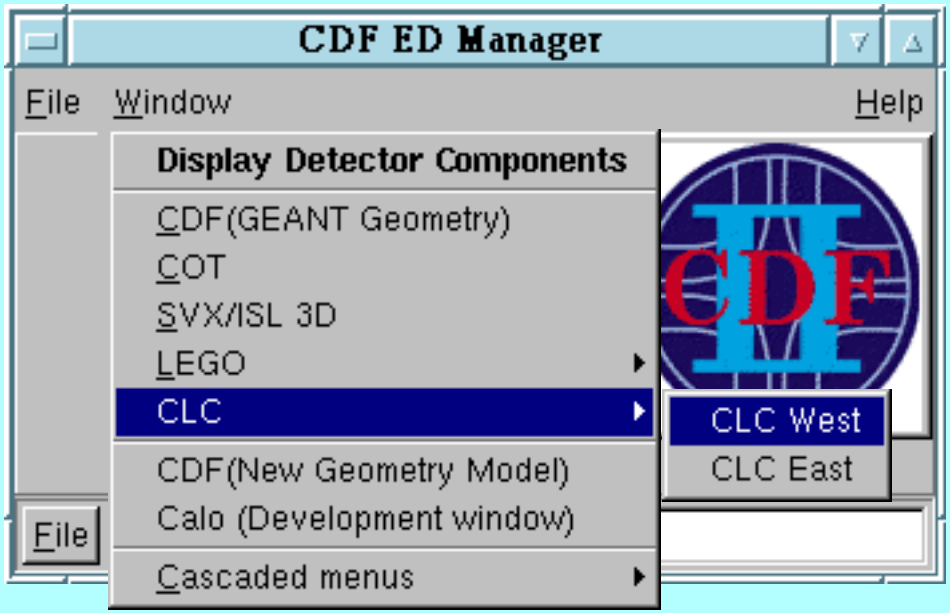
How To

How to read CLC data

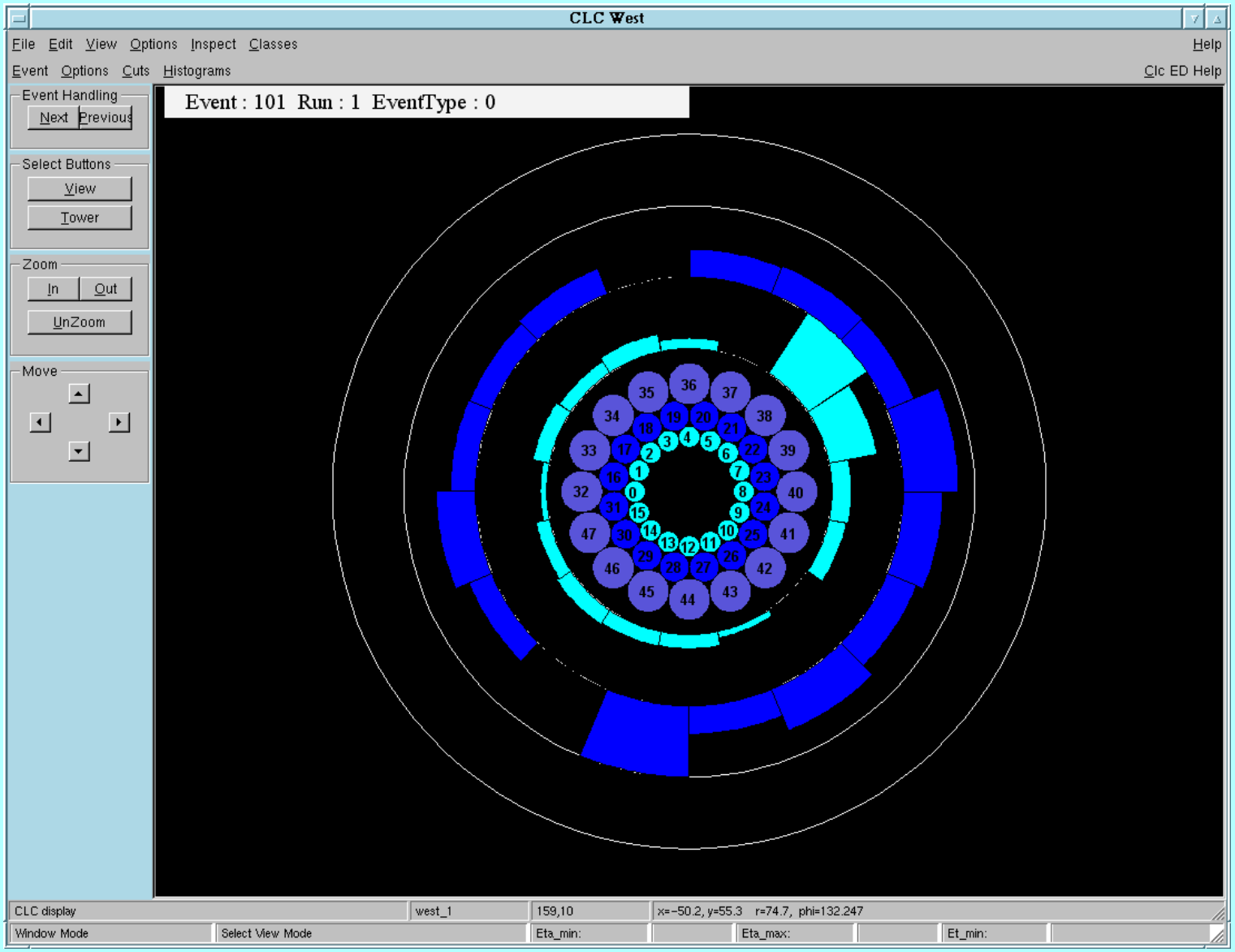
- `evd.exe clc.tcl`
-
```
> less clc.tcl
mod input YbosDiskFile
talk YbosDiskFile
 input file ../data/A20000526154041.test
exit

mod disable CalibrationManager
mod disable CT_SimulationModule
mod disable CT_Tracking
mod disable CT_Test
mod disable CalorimetryModule
mod disable JETCLU
mod disable CMPModsDtoE
mod disable CMUModsDtoE
mod disable CMUModsEtoS
mod disable CMXMods_EtoS
```
- **from** `AC++>` **prompt type** `root` **, and then** `begin(nevents);` **or** `continue(nevents);`

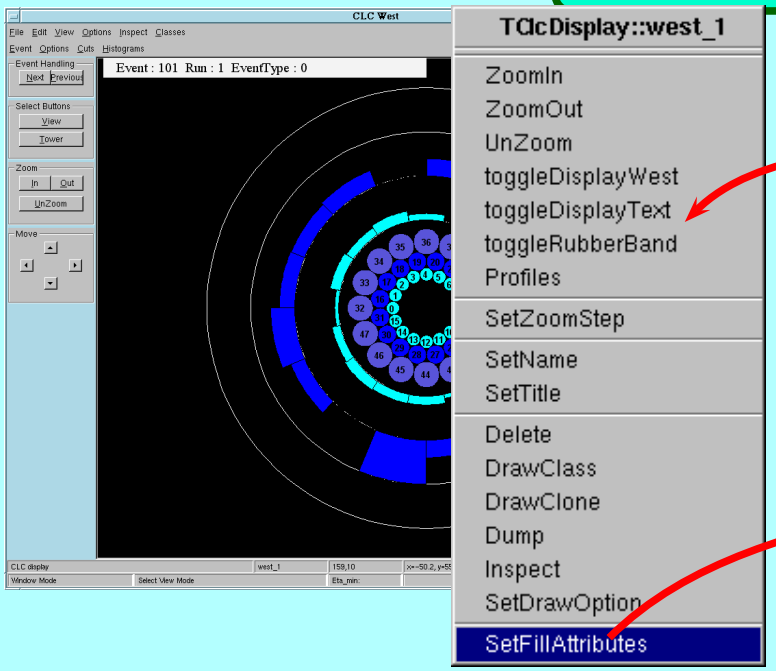
ED Manager

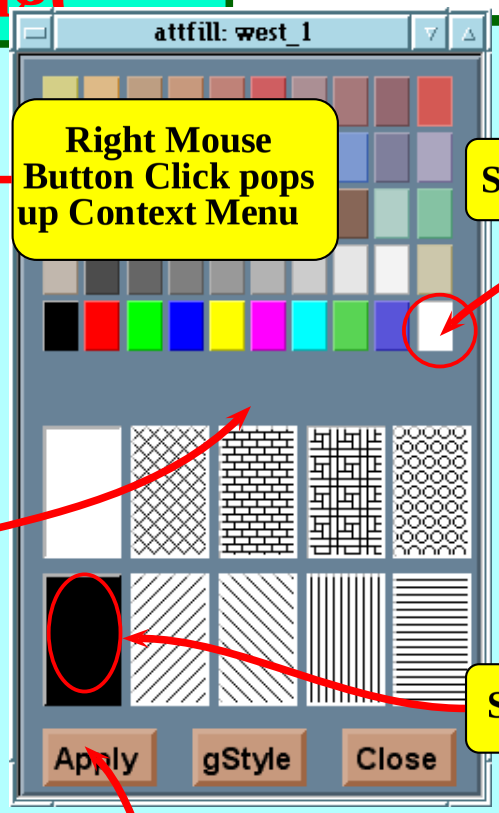

CDF ED Manager
File
Window
Help
Display Detector Components
CDF(GEANT Geometry)
COT
SVX/ISL 3D
LEGO
CLC
CDF(New Geometry Model)
Calo (Development window)
Cascaded menus
CLC West
CLC East
File

CLC Display


CLC West
File Edit View Options Inspect Classes
Help
Event Options Cuts Histograms
Clc ED Help
Event Handling
Next Previous
Select Buttons
View
Tower
Zoom
In Out
UnZoom
Move
Event : 101 Run : 1 EventType : 0
CLC display
west_1
159,10
x=-50.2, y=55.3 r=74.7, phi=132.247
Window Mode
Select View Mode
Eta_min:
Eta_max:
Et_min:

Att Change



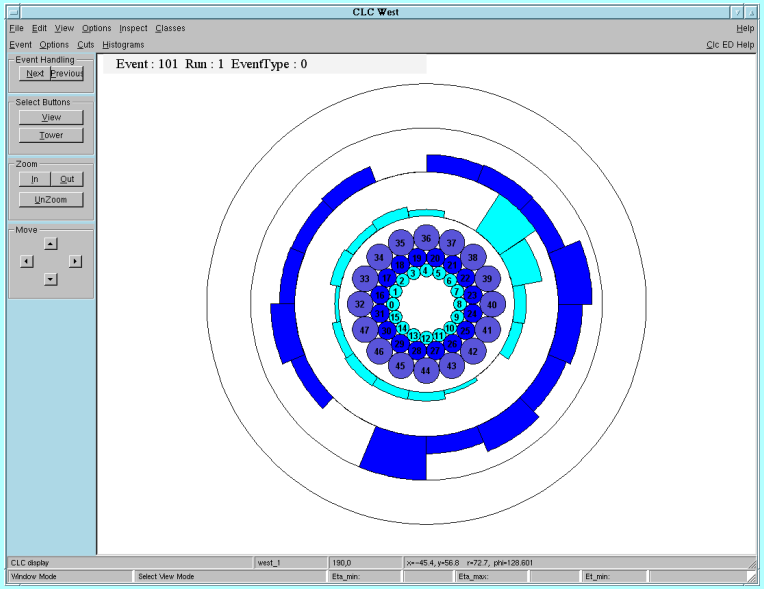


Right Mouse Button Click pops up Context Menu

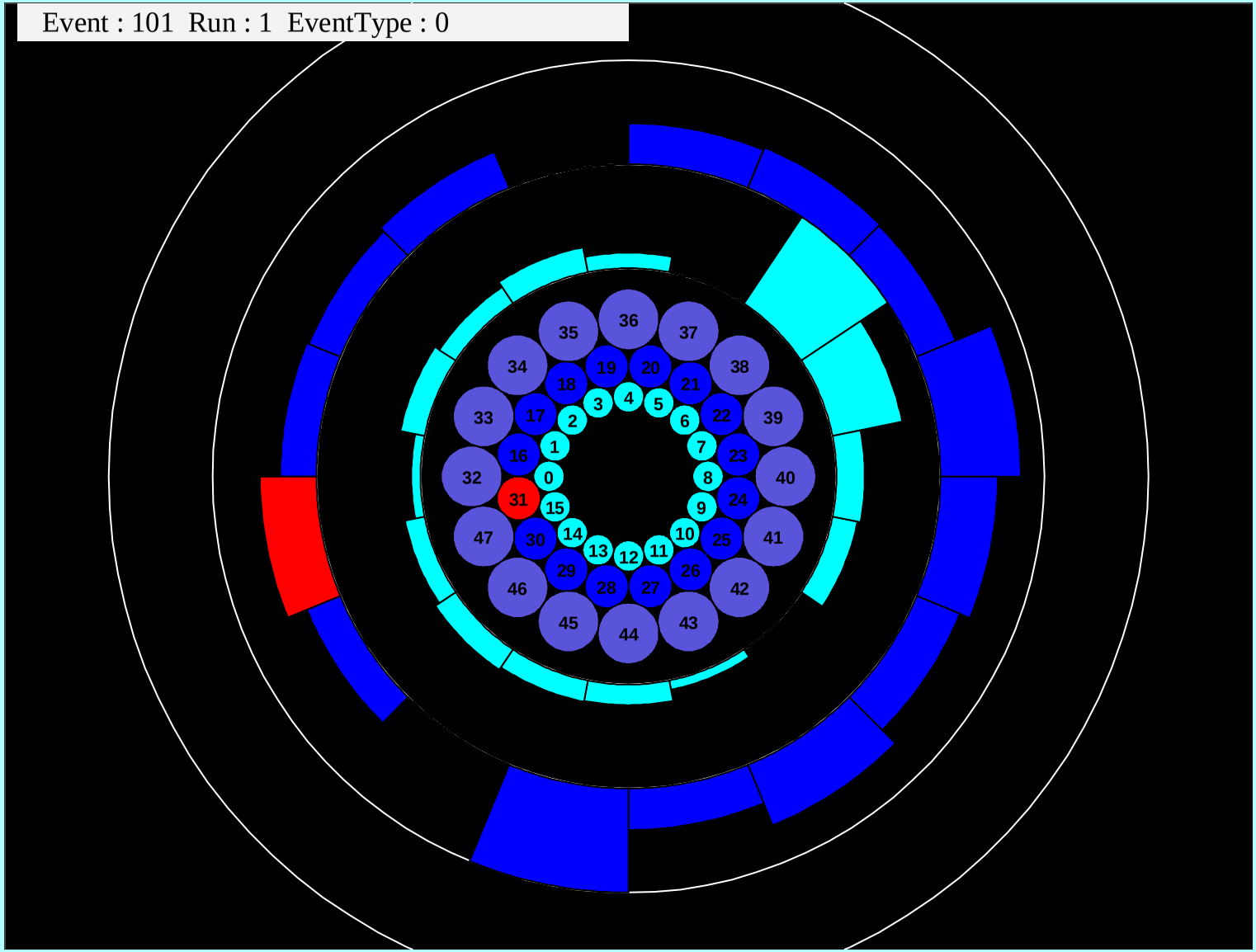
Select Fill Color

Select Fill Style

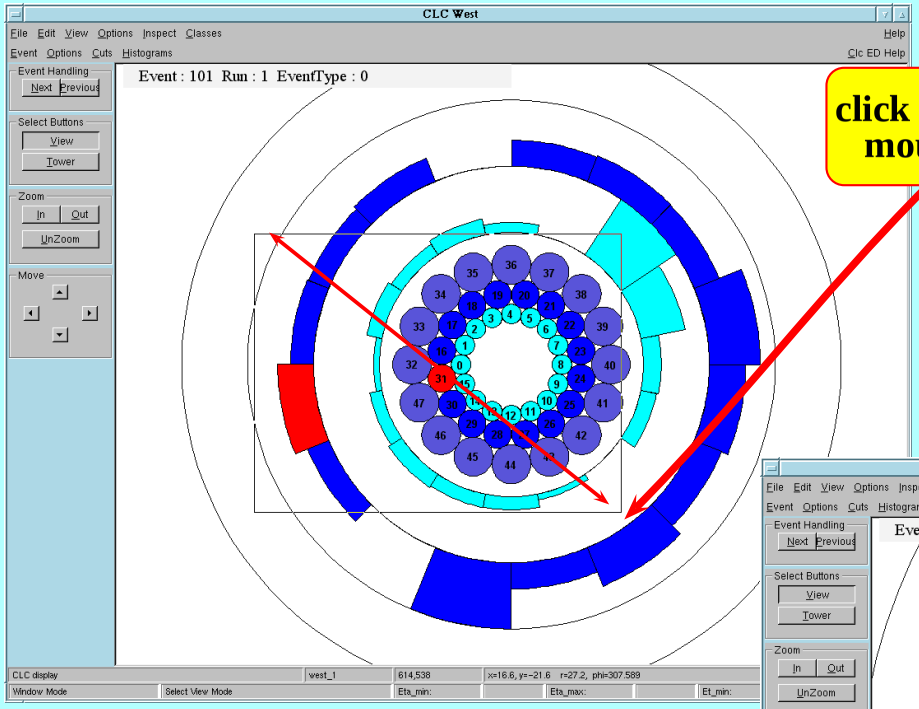
Click Twice!



PostScript Output

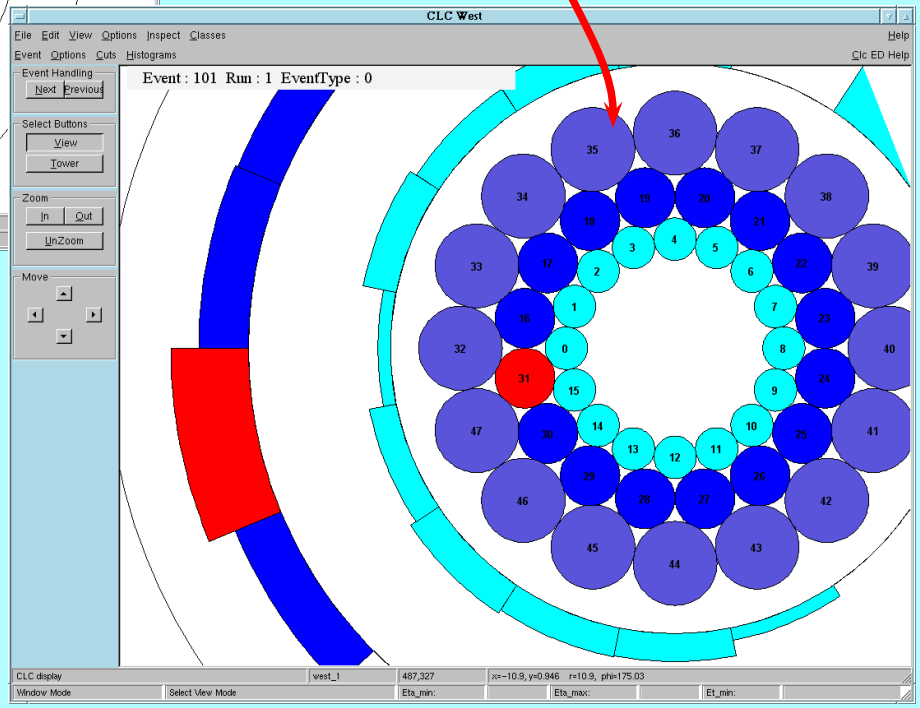


Zooming Using Mouse



click and drug left mouse button

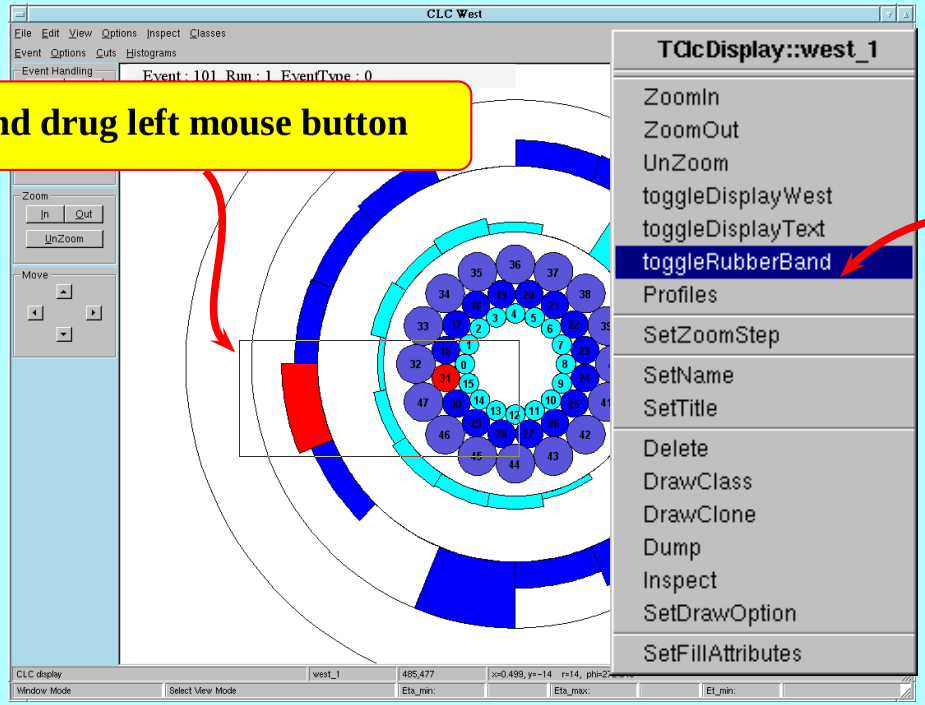
Resulting "Zoomed In" View in the same window



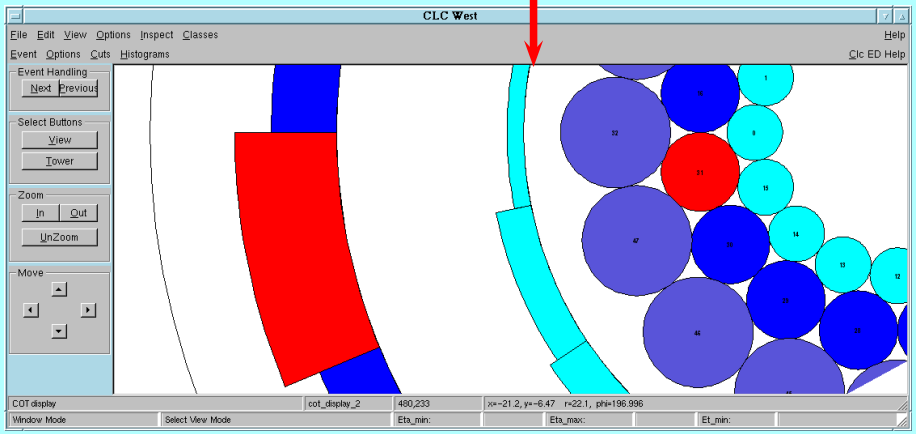
RubberBand

click and drug left mouse button

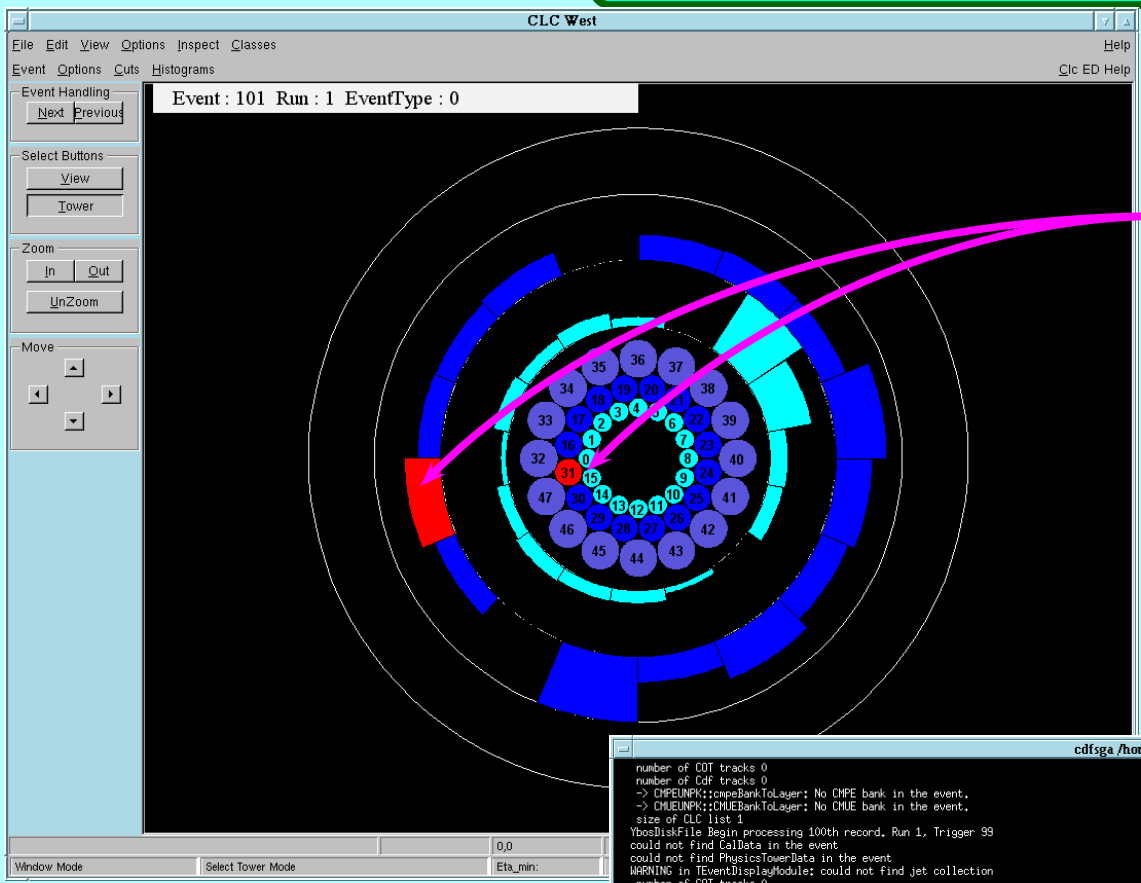
pop up CLC Display context menu using right mouse button, check **toggleRubberBand**



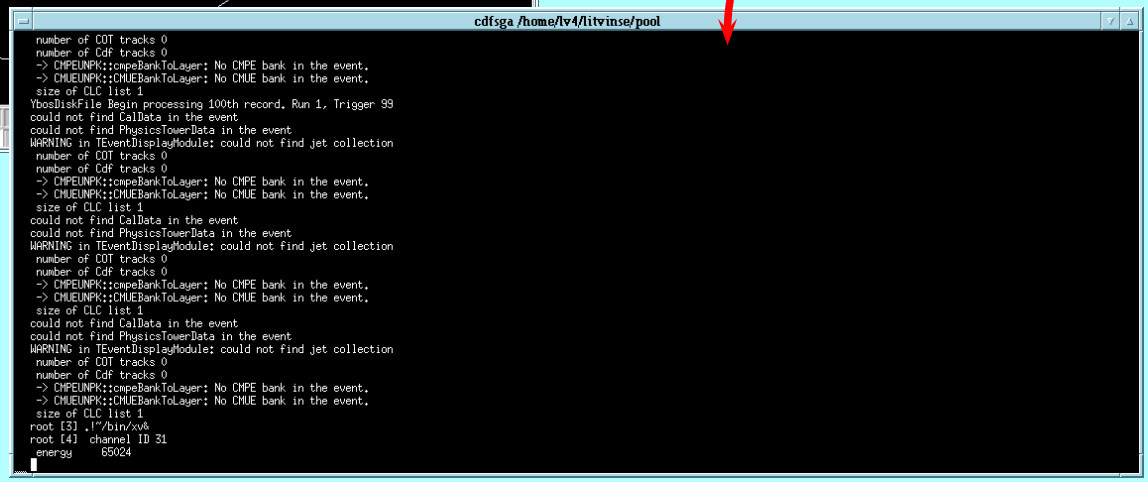
Resulting "Zoomed In" View opens in separate window



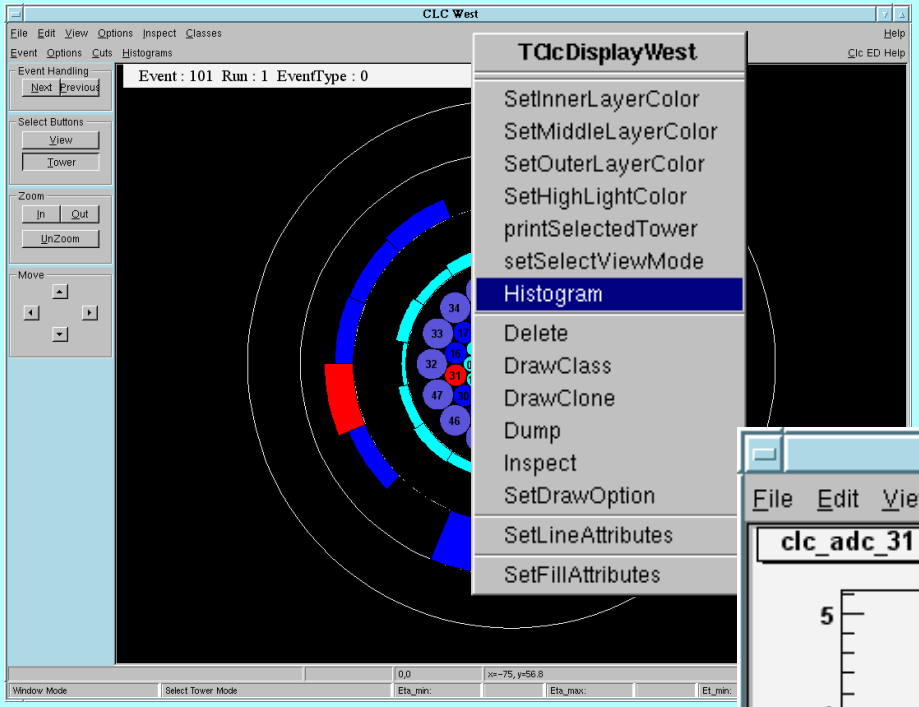
Picking Objects



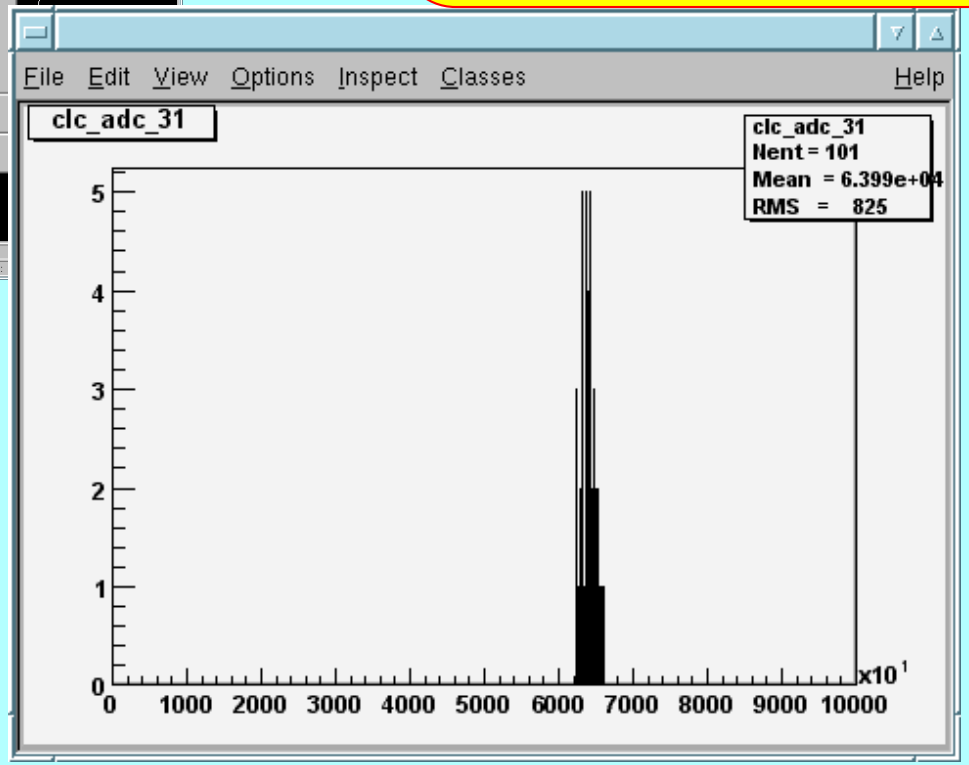
put CLC Window in Select Tower Mode clicking on Tower select button. Move cursor to tower, or its histogram bin and click left mouse button. Tower gets highlighted and some information is dumped to text window (with root prompt)



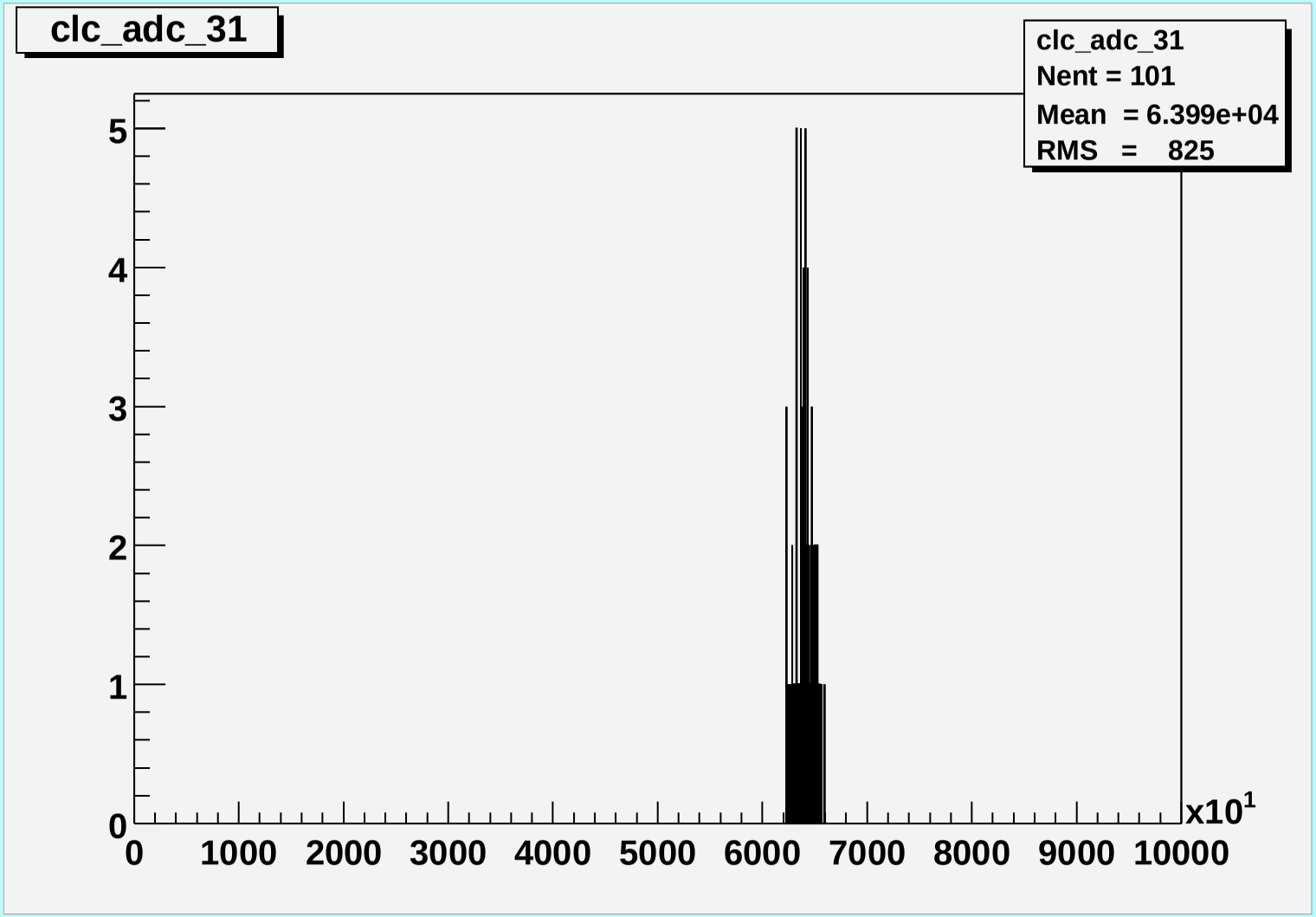
Picking Objects



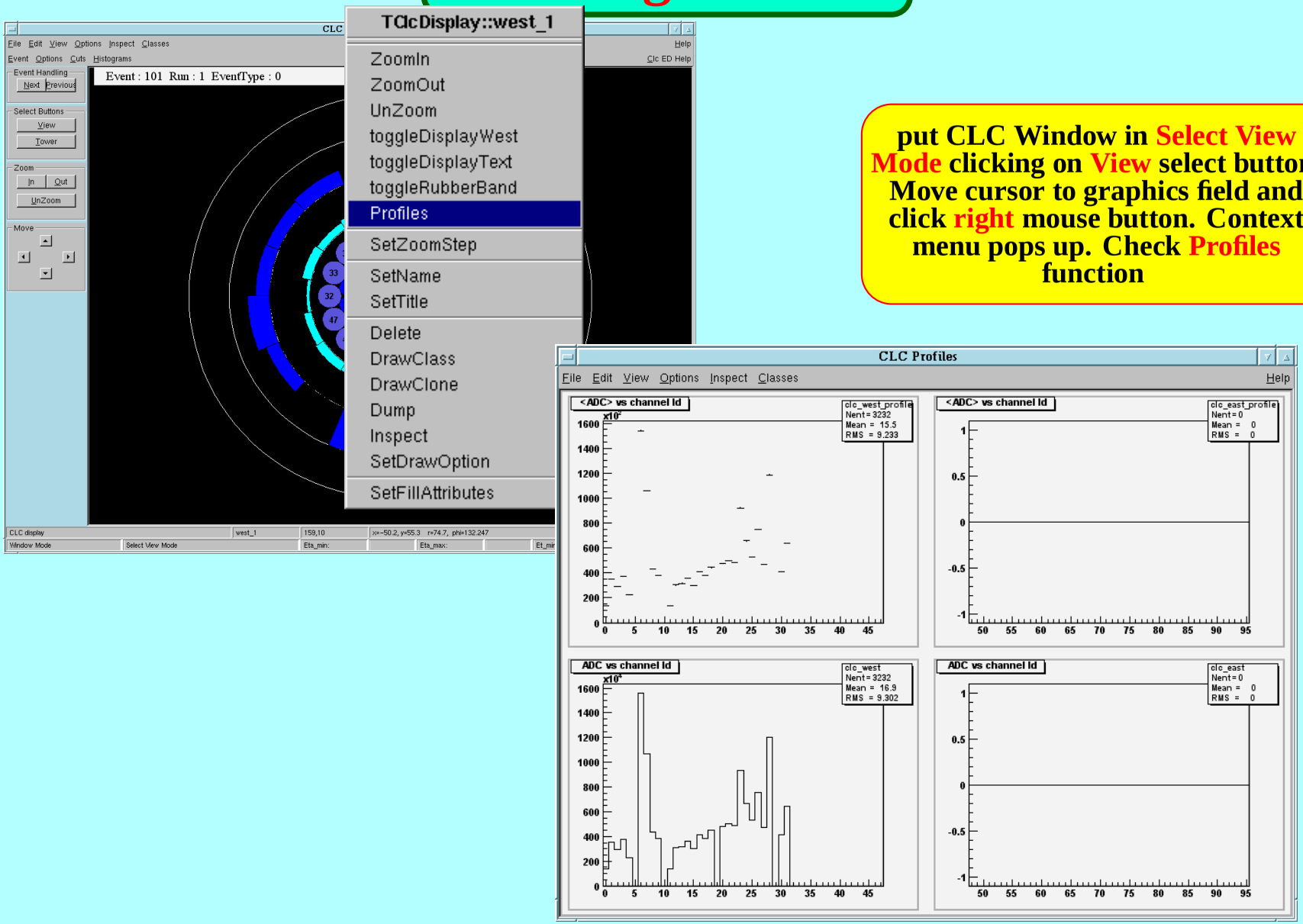
put CLC Window in Select Tower Mode clicking on Tower select button. Move cursor to tower, or its histogram bin and click right mouse button. Context menu pops up. Check Histogram function. Tower gets highlighted and its histogram (accumulative) appears in separate window



PostScript Output

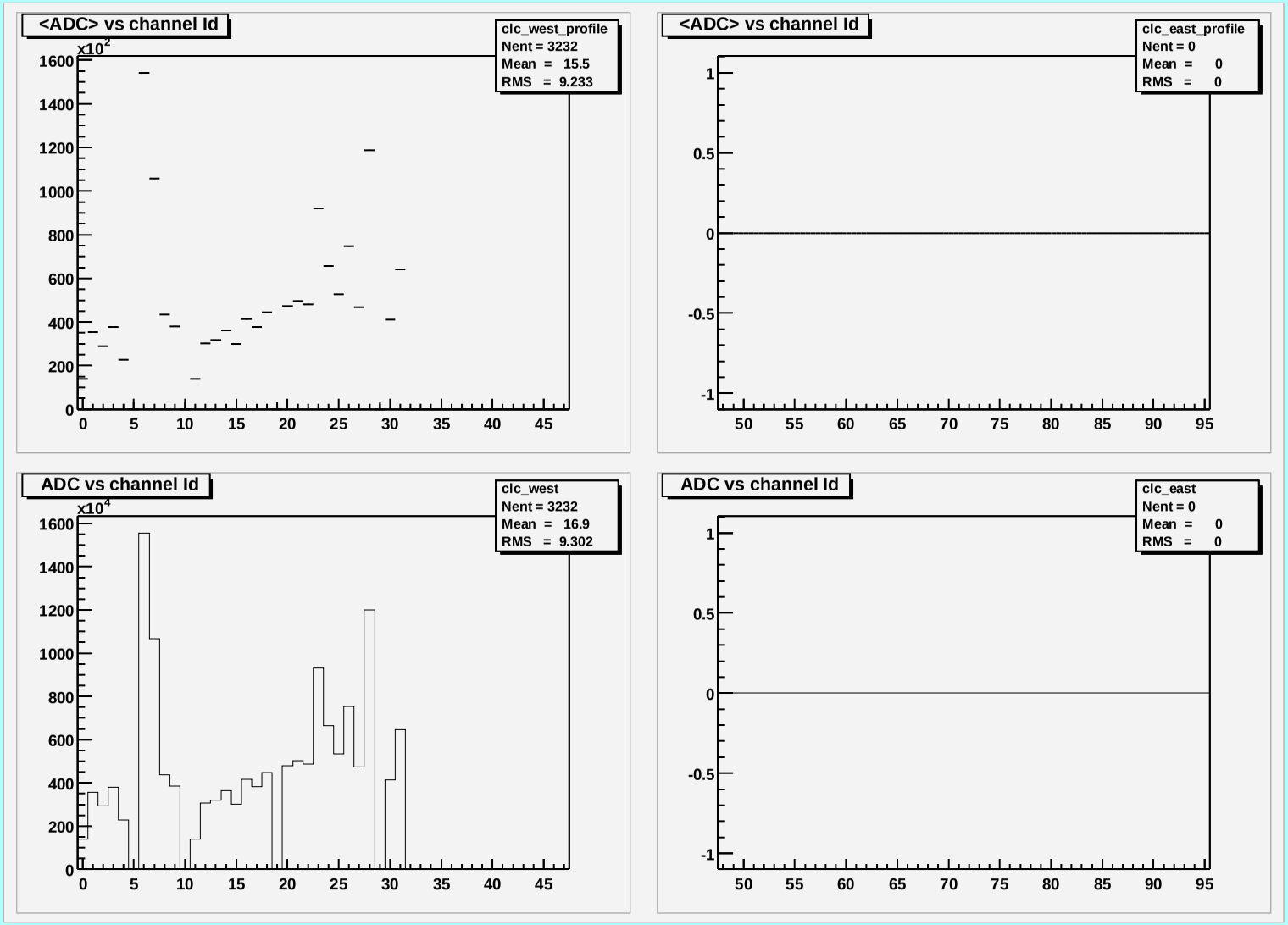


Profile Histograms



put CLC Window in Select View Mode clicking on View select button. Move cursor to graphics field and click right mouse button. Context menu pops up. Check Profiles function

PostScript Output



Conclusions

- CLC Display is functional
- CLTD displays to be incorporated soon
- I am open for your input at ED HomePage, use Bug Submit/Enhancement Request forms, from
  `http://www-cdf.fnal.gov/upgrades/computing/projects/display/EventDisplay.html`
- as soon as CLC reconstruction is ready – add CLC data to LEGO plot
- try using ED in offline and on-line environments, I will appreciate your feedback