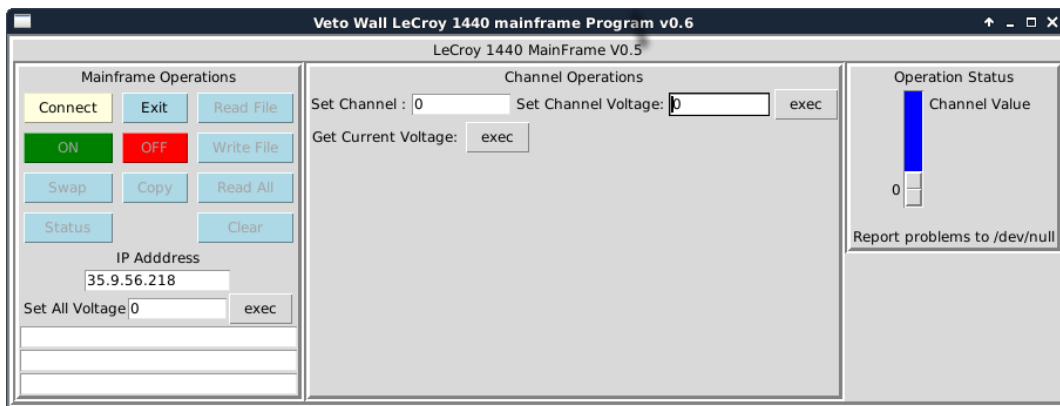


How to operate Veto Wall

To set HV using LeCroy power supply

- log in as e16042
- open a terminal
- go to HVsupply folder by typing "cd HVsupply/"
- you can see the stuffs inside the folder by typing ls . you need to open LeCroy1440 _Veto.tcl. for that type "wish LeCroy1440 _Veto.tcl"



- P
power supply screen opens. First, hit "connect" and then "on" (see figure below)

- Then read the high voltages by clicking "read file" option. Then, select the file named with "VETOWALL.hv" and press enter.

Be patient! It takes about 1 minute to read and set all the voltages.

To load cfd discriminators

- ssh to spdaq48 using e16042 account.

- To be able to control discriminators we have to make sure that the CAMAC-USB controller is up. You can do it by typing `./LaunchCCUSB`. If the controller was already launched the software will exit with an error.

```

%
%
%
%
% ^C<spdaq48:Veto_cfd >
<spdaq48:Veto_cfd >wish lecroycfd.tcl
<spdaq48:Veto_cfd >./LaunchCCUSB

```

- Continue to the next step.
- Open another terminal and log into spdaq48 using e16042. Then, go to Veto_cfd folder by typing `cd Veto_cfd/`

```

devSpectcl/      NW_Compton_Edges.tcl
Documents/       VWSpectcl/      tap/
dot-file-info   NW_Spectcl/     Veto_cfd/
Downloads/      Pictures/        Videos/
eLogSync/       Public/          VWSpectcl/
experiment@     public_html/    VW_Spectcl_debug/
goe14030*       ReadoutCallouts.tcl@
goe14030-*      ReadoutCallouts.tcl-
goExp*          ReadoutShell*   Xamine.Defaults
<spdaq48:~ >cd Veto_cfd/

```

- type `wish lecroycfd.tcl`

```

<spdaq48:~ >cd V
Veto_cfd/      VWSpectcl/      VWSpectcl_old/
Videos/       VW_Spectcl_debug/
<spdaq48:~ >cd Veto_cfd/
<spdaq48:Veto_cfd >ls
backup/        current.dis      #LaunchCCUSB#*  lecroycfd.tcl-
ccusb_0600_072012.bit  inputfiles/     LaunchCCUSB-*  test.tcl
controlconfig.tcl  LaunchCCUSB*   lecroycfd.tcl  test.tcl-
<spdaq48:Veto_cfd >wish lecroycfd.tcl

```

- select `"VETO_WALL_tresholds.dis"` file from the list to load discriminators thresholds.

Record data

- Check the other document on how to run the merged readout.

To look Spectra (for NW daq only). If you want to look at merged data you should replace VWSpectcl with SpectclMerged.

- open a terminal
- go to Vetowall spectra by typing `cd VWSpectcl`

```
goExp* rootspec/  
<spdaq48:~ >cd VW  
VW_SpecTcl_debug/ VW_SpecTcl_old/  
<spdaq48:~ >cd VW  
VW_SpecTcl_debug/ VW_SpecTcl_old/  
<spdaq48:~ >cd VW_SpecTcl/
```

- type "./SpecTcl"

```
configFile.tcl~ CV1x90Unpacker.cpp Xamine.log  
constants.tcl CV1x90Unpacker.h  
constants.tcl~ CV1x90Unpacker.o  
core  
<spdaq48:VW_SpecTcl >./SpecTcl
```

- On Treegui window, choose "Datasource" then "online". Type spdaq48 in host and choose "ring11"
- On Treegui window, click load, select "def-files" and choose the "VetoWall_All.tcl" file that loads qdc 07, 08 and tdc 02
- On Xamine window, choose read configuration and select "e16042/VW_SpecTcl" then win file "VetoWall_All.win" that will display the spectra for qdc 07, qdc 08 and tdc 02 channel