This document tries to explain how to operate the Neutron Walls (LANA)

1 Neutron Wall HV

1. Open a new terminal, ssh to e16042@spdaq48, and go to the `/user/e16042/HVsupply` directory.
2. Type `wish LeCroy1440.tcl` and a GUI should appear (see Fig. 1).
3. Click `Connect`, then click `ON`, and then you should load the Voltage file by clicking `Read File` and selecting the voltage setting file. Since we are using bar 24 instead of bar zero, we will load the voltage setting file from the directory `NW_forbar1to24`.
4. Load `NW_forbar1to24/NWAandNWB_1to24_B.txt` for ^{60}Co.
5. Load `NW_forbar1to24/NWAandNWB_1to24_15MeV_B.txt` for 15 MeV.
6. Load `NW_forbar1to24/NWAandNWB_1to24_25MeV_B.txt` for 25 MeV.
7. Note that the naming convention follows the same rule as the hira settings in that you should select the file with the last letter in the alphabet appended to the end of the file name (e.g. file_c should be chosen instead of file_a or file_b).
8. Loading the voltages will take some time. You can track its progress through the blue progress bar in the upper right of the GUI. It will be finished when it reaches 207.

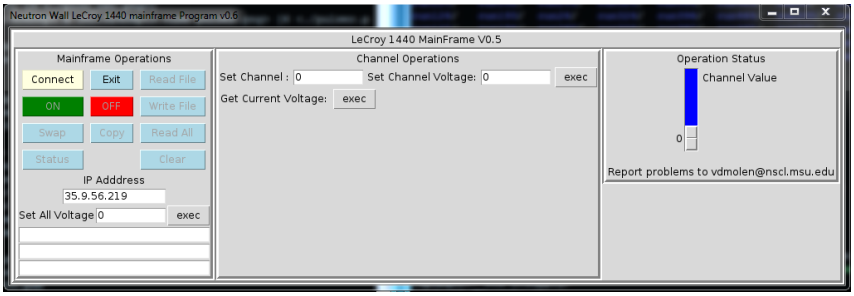

Figure 1: HV control window.

2 NW Discriminators and Gate and Delay Generators

Before making any changes to the discriminators or Gate and Delay generators, the run must be ended! Making any changes to the discriminators while Readout is taking data (Recording or not) can cause errors in the settings of the modules.

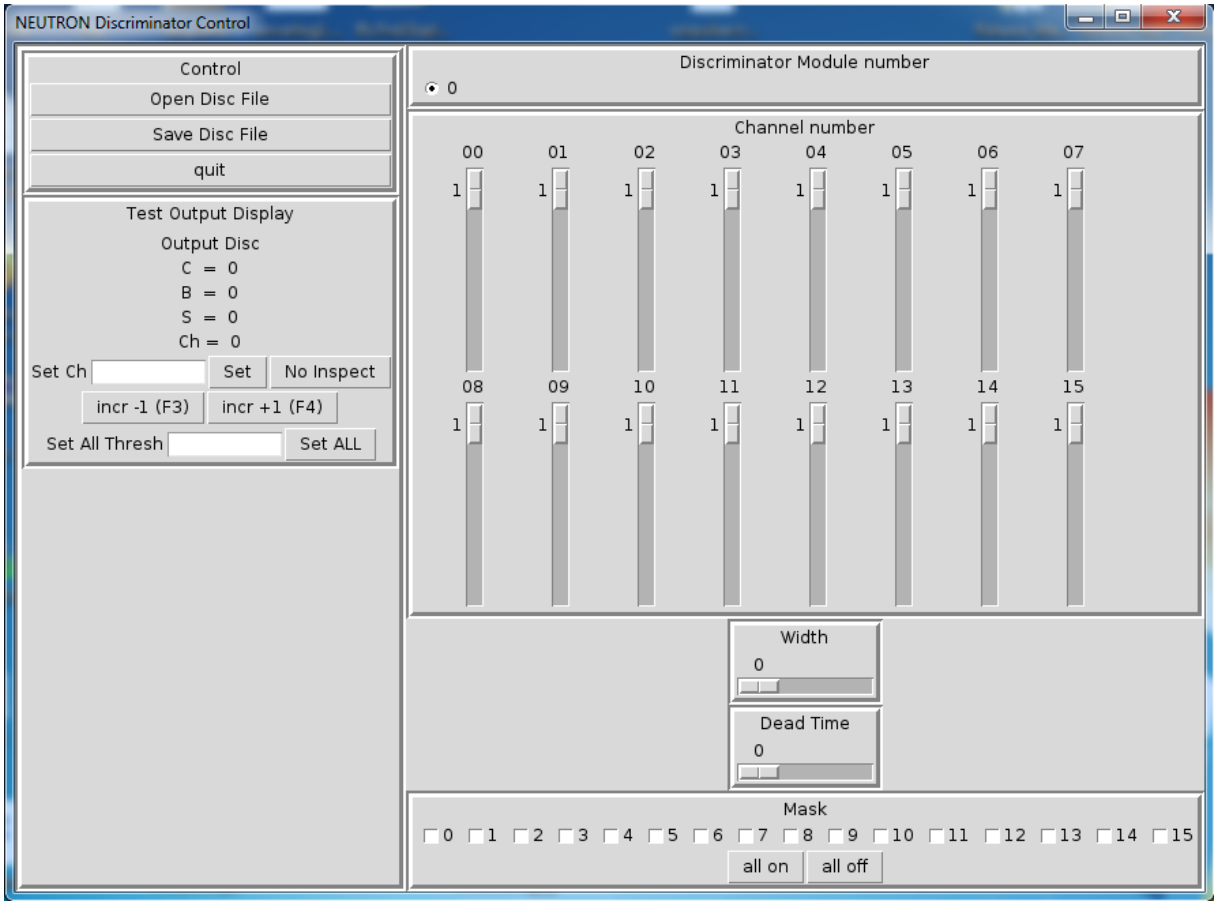

Figure 2: NW Discriminator GUI

1. Open a new terminal, ssh to e16042@spdaq48, and go to the `/user/e16042/NEUT_cfd` directory.

2. Type `wish lecroy_cfd.tcl` and a GUI should appear (see Fig. 2).

3. To load the discriminator settings click on the `Open Disc File` button and pick the corret file in the `inputfiles` directory.