MagRO NMRView Noise filter Guide

MagRO NMRView and Filt Robot can be used for noise filtration of NMR spectra using Deep Learning Technology

Try demo of CNN filter (Sparky peak list conversion)

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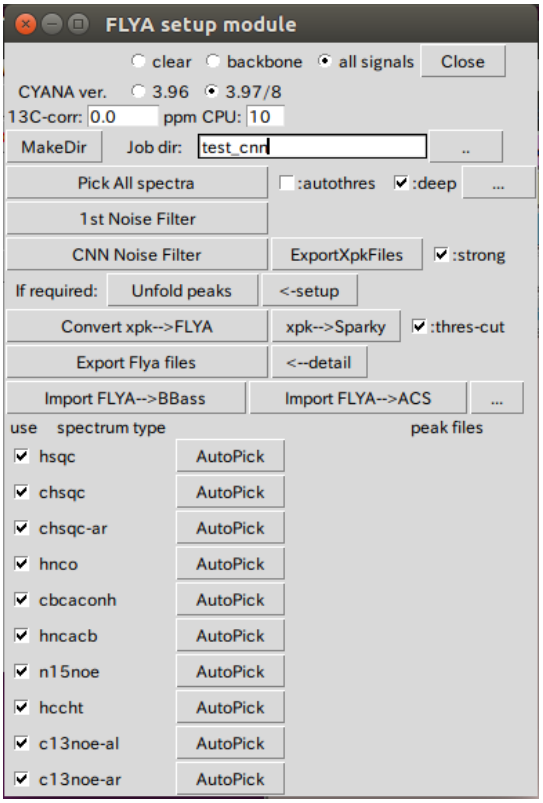
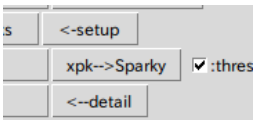
The Program, Filt_Robot (FLYA module in MagRO NMRView) can export filtered peak lists as Sparky format.

Open the FLYA module:



Then press "xpk-->Sparky" button.



The *cnn.xpk peak lists will be converted simple peak lists, just listing peak position (ppm) for each dimension with peak ID number.

The demo spectrum data sets (UCSF format) can be found in /media/sf_ShareVB/NMR_data/CpR74A_demo/matrix/Sparky

The converted peak lists will be found in the same directory.

The axis order is defined in sparky_list.txt file:
(The file should be placed in /media/sf_ShareVB/NMR_software/Filt_Robot_v1.42.76.0J/)

```
## sptp axis-order
chsqc 2 1
chsqc-ar 2 1
hsqc 1 2
hnco 3 2 1
cbcaconh 3 2 1
hncacb 3 2 1
hccht 3 1 2
n15noe 2 3 1
c13noe-al 2 3 1
c13noe-ar 3 2 1
```

So Sparky user can import peak lists such as hncacb_cnn.list derived from the CNN filtered peak list for 3D HNCACB spectrum.
This function may help to confirm the filter capability of CNN filter system.