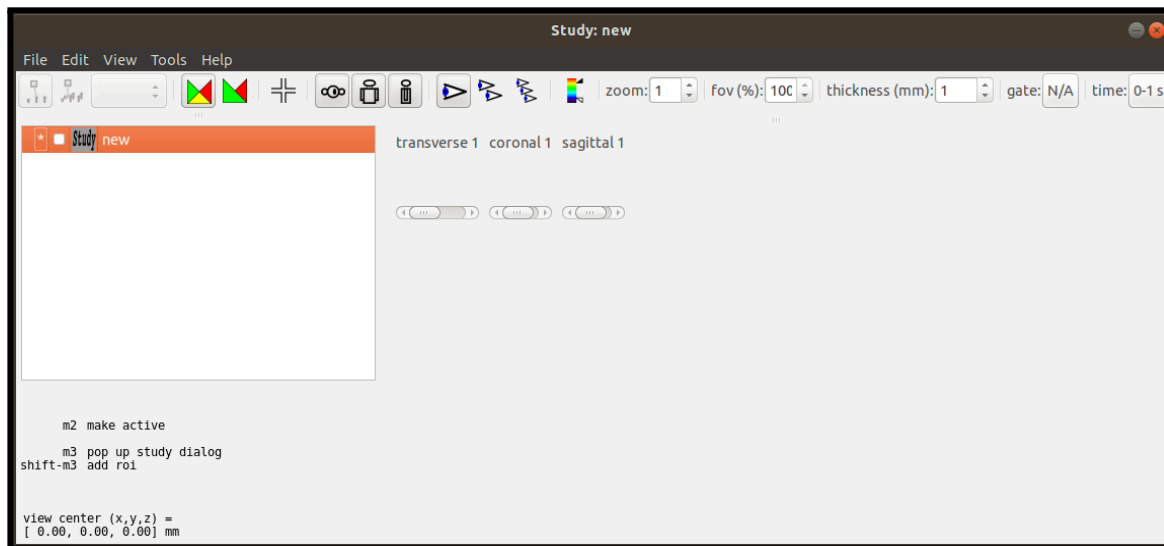


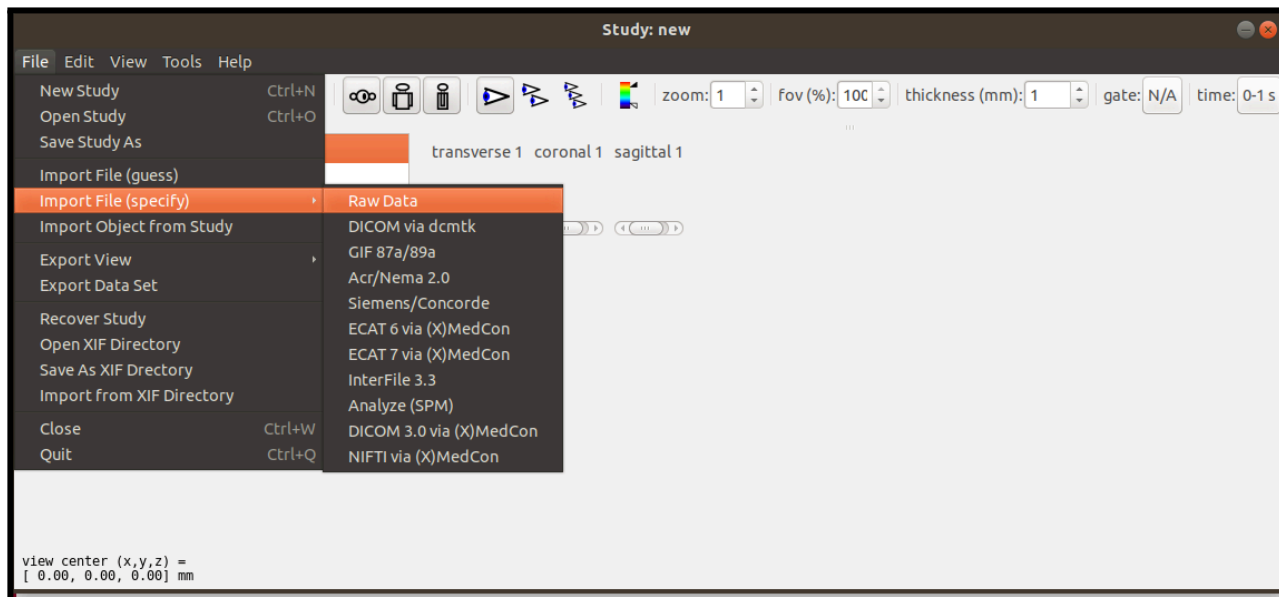
Use AMIDE to read the image files.

With the "AMIDE" program, we can have a look at image files.

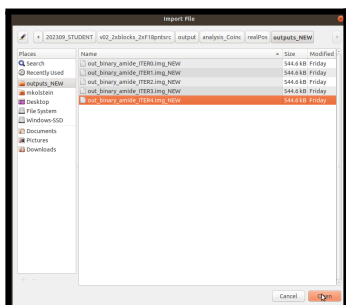
1. If you type "amide" in your terminal, you get the following window:



2. To open an image File, you click on "File" -> "Import File (specify)" -> "Raw Data", like this:



3. You chose the image you want to look at (e.g. `spect_image.img`)



4. After clicking "Open", you see this (without the red lines):

The red lines mark important fields to take care of:

1) "data format". This you only have to set the first time you use amide. It will remember your choice forever.

You should choose: "Float, Little Endian (32 bit)".

2) For the fields

"dimensions (#voxels)"

and "voxel size (mm)", you

should look at the contents of the <XXX>_fov_parameters.conf file (e.g. osem_fov_parameters.conf or minispect_fov_parameters.conf).

You can do that by typing:

```
cat osem_fov_parameters.conf
```

```
(or cat minispect_fov_parameters.conf )
```

```
mkolstein@ideapad-330S-15IKB:outputs_NEW$ cat ../osem_fov_parameters.conf
minX      -10.25    //
maxX      10.25     //
nVoxelsX  41        //0.5
minY      -10.25    //
maxY      10.25     //
nVoxelsY  41        //0.5
minZ      -20.25    //
maxZ      20.25     //
nVoxelsZ  81        //0.5
```

The values in the file: (nVoxelsX = 41, nVoxelsY = 41, nVoxelsZ = 81) and the corresponding bin sizes (0.5, 0.5, 0.5) should be the same in the AMIDE window for the "dimension (#voxels)" fields and the "voxel size (mm)" fields. (As you can see in the example above they are the same.)

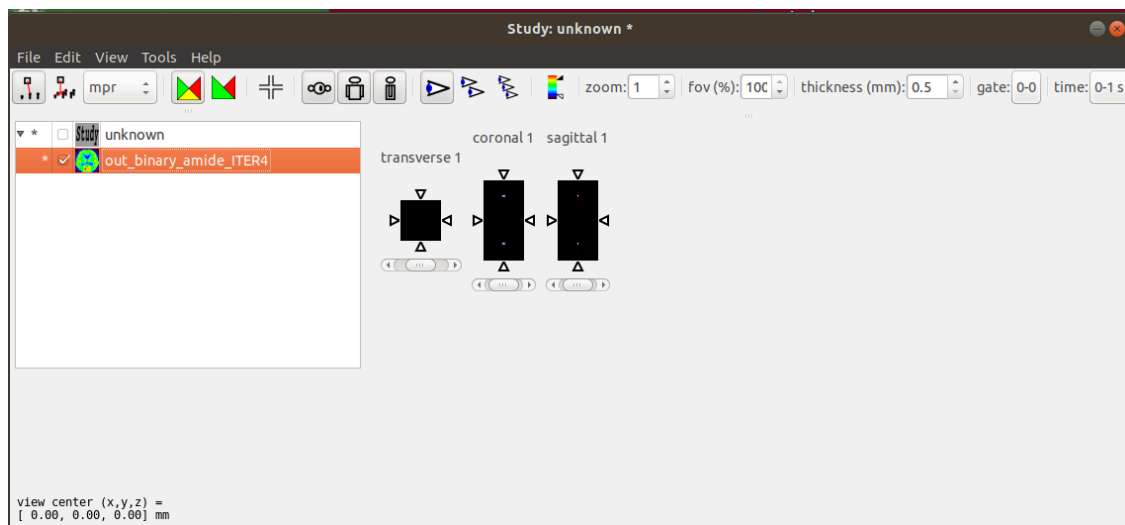
WARNING!!! In some versions of AMIDE, instead of a decimal point, a decimal comma is used... You can see in the other AMIDE fields, which one is used. If AMIDE uses decimal commas (0,5 instead of 0.5), make sure you do too because otherwise it will be set to 0.

If you want AMIDE to use decimal points, type the following:

```
cp ~mkolstein/bin/amide_set_decimalpoint.sh ~/bin.
```

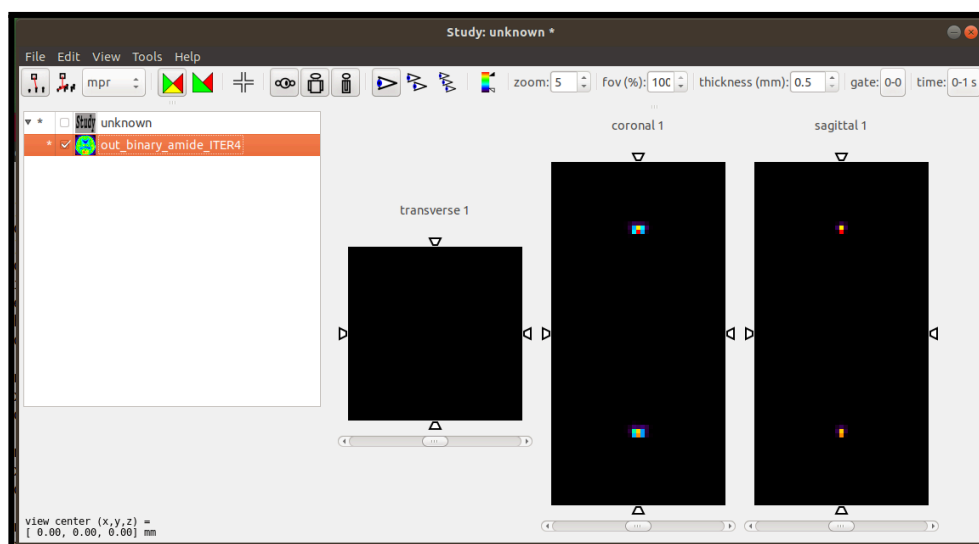
```
source ~/bin/amide_set_decimalpoint.sh
```

5 After clicking "OK" in Amide, you should see (you might have to click on the name of image (e.g. "out_binary_amide_ITER4" in the example below) in the sub-window on the left):

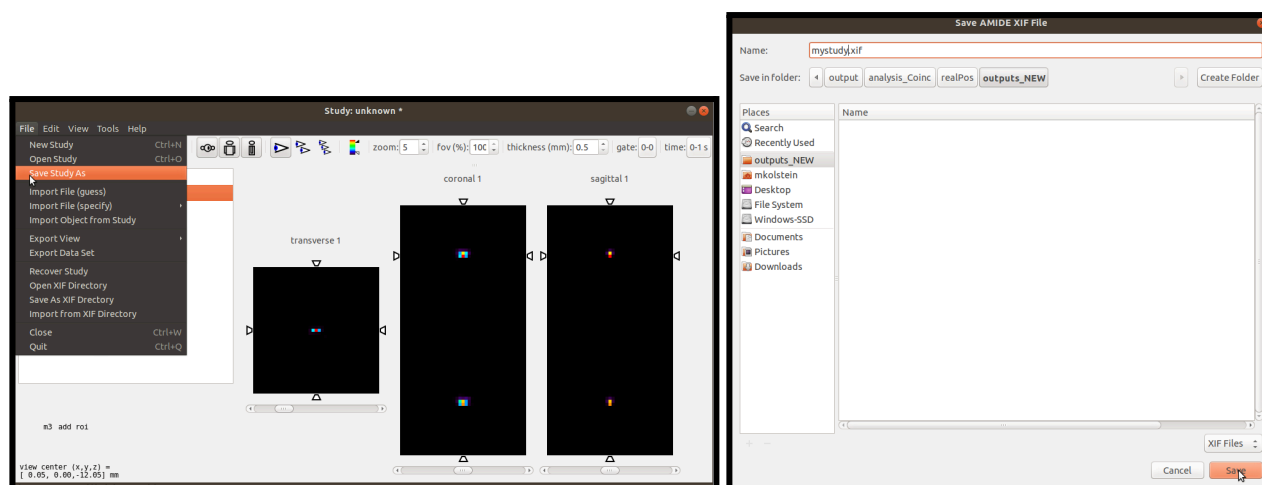


You see three images: transverse, coronal and sagittal, which correspond to a view in the X-Y frame, X-Z frame and Y-Z frame. Right now, they are rather small.

6 In the small "zoom" window at the top, put "5" (or some other number > 1) instead of "1" and hit return.



7. Before quitting amide, you might want to save the session. For instance, like this:



The next time, in this directory, you can start up AMIDE with

```
amide mystudy.xif
```

It will immediately bring you back to the view you ended up with last time.