def proces2(self):

if data3.any():

print((data2.shape))

F1= do\_fft(data3)

F2 = fftpack.fftshift( F1 )

pwr\_sp = (numpy.abs( F2 )\*\*2)

#pwr\_sp = (numpy.abs( F2 )\*\*2)

plt.ion()

fig2=plt.figure()

ax = fig2.add\_subplot(221)

maxv=numpy.max(numpy.log10(pwr\_sp))#pwr\_sp)

#maxv=3.0e7

minv=numpy.min(numpy.log10(pwr\_sp))

###PLOT POWER

fig = plt.figure()

ax = fig.add\_subplot(111)

plt.axis('off')

plt.tight\_layout()

#plt.axis([0, 20, 0, 20])

ax.imshow((numpy.log10(pwr\_sp)),cmap = cm.Greys\_r,vmin=minv, vmax=maxv)

ax.set\_frame\_on(False)

ax.set\_xticks([]); ax.set\_yticks([])

plt.show()

# ax.imshow(data3,cmap = cm.Greys\_r,vmin=vmin\_in, vmax=vmax\_in)

#plt.savefig('th\_ar\_pwr\_test.svg', bbox\_inches='tight',format='svg', dpi=1000, transparent=True,pad\_inches=0)

###END PLOT POWER

bb=ax.imshow((numpy.log10(pwr\_sp)),cmap = cm.Greys\_r,vmin=minv, vmax=maxv/.8, picker=True)

ax.invert\_yaxis()

ax2 = fig2.add\_subplot(222)

print(("The Min is", minv))

print(("The max is",maxv))

axcolor = 'lightgoldenrodyellow'

axfreq = plt.axes([0.1, 0.01, 0.8, 0.04], axisbg=axcolor)

sfreq = Slider(axfreq, 'y\_max', minv/.9, maxv/.9, valinit=maxv)

ax3 = fig2.add\_subplot(223)

ax4 = fig2.add\_subplot(224)

ax3.set\_title('Selected Rows')

ax4.set\_title('Summed Spectrum')

def update(val):

freq = sfreq.val

print((sfreq.val))

ax2.set\_ylim([-.1\*maxv,sfreq.val])

ax3.set\_ylim([(-.1\*maxv),sfreq.val])

ax3.set\_title('Selected Rows')

plt.draw()

sfreq.on\_changed(update)