

My Insane IDL Notebook

```
print, 'Hello world! IDL Notebooks are awesome.'
```

```
[1]
:      Hello world! IDL Notebooks are awesome.
```

```
; CHIANTI!

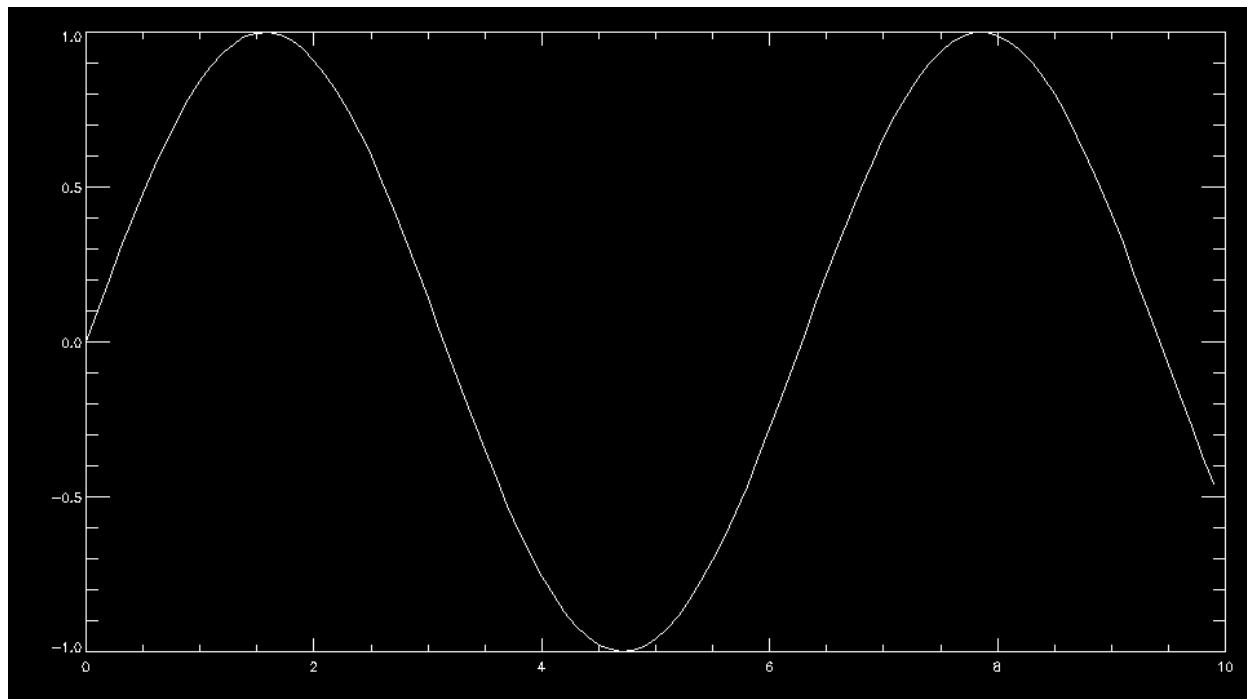
which_line, "fe_12", 195
```

```
[1]
:
      Wavelength   i   j  Lower level           Upper level
A-value
      193.509      1  29   3s2 3p3 4S3/2         - 3s2 3p2 3d 4P3/2
8.88e+10
      194.609      1  28   3s2 3p3 4S3/2         - 3s 3p4 2P1/2
4.93e+09
*      194.903      2  34   3s2 3p3 2D3/2         - 3s2 3p2 3d 2D5/2
2.27e+09
      195.119      1  27   3s2 3p3 4S3/2         - 3s2 3p2 3d 4P5/2
8.67e+10
      195.179      2  33   3s2 3p3 2D3/2         - 3s2 3p2 3d 2D3/2
5.94e+10
      196.640      3  34   3s2 3p3 2D5/2         - 3s2 3p2 3d 2D5/2
4.48e+10
      196.921      3  33   3s2 3p3 2D5/2         - 3s2 3p2 3d 2D3/2
9.90e+09
```

Use keyword /all to include lines with theoretical wavelengths.

```
; plot a sine wave
x = findgen(100) / 10.0
y = sin(x)
plot, x, y
```

```
[1]:
```



```
; import and plot an SDO image

read_sdo, "./aia.lev1_euv_12s.2022-10-21T001551Z.193.image.fits", index,
data

index2map, index, data, sdo_map

aia_lct,wave=193,/load

plot_map, sdo_map, /log, grid=30
```

[1]

:

```
-----
| Uncompressing to> /tmp/ |
-----
-----
| ./aia.lev1_euv_12s.2022-10-21T001551Z.193.image.fits ->
/tmp/AIA20221021_001552_0193.fits |
-----
-----
```

[2]:

