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%matplotlib inline

import pandas as pd

import matplotlib.pyplot as plt

lft_file = '/home/ecpl/aggelos/time'

lft_df = pd.read_csv(lft_file, #file to read
                    delim_whitespace=True, #split columns where whitespace
                    index_col='ALT' #set Altitude column as index
                    )

#####

#set columns of the dataframe in variables

y = lft_df.index
x1 = lft_df.TJ
x2 = lft_df.TM
x3 = lft_df.TOH
x4 = lft_df.TTOTAL

#####

fig = plt.figure(figsize = (6,3), dpi = 100) #create the figure

ax = fig.add_subplot(111) #create the canvas of the figure - 111 corresponds to number of rows,
columns, index of the plots in the figure

ax.plot(x1 , y, label = 'TJ')
ax.plot(x2 , y, label = 'TM')
ax.plot(x3 , y, label = 'TOH')
ax.plot(x4 , y, label = 'TTOTAL')

ax.set_xscale('log') #set x axis as logarithmic

ax.legend() #display legends

ax.set_xlabel('time (days)') #set label of the x axis

ax.set_ylabel('Altitude (m)') #set label of the y axis

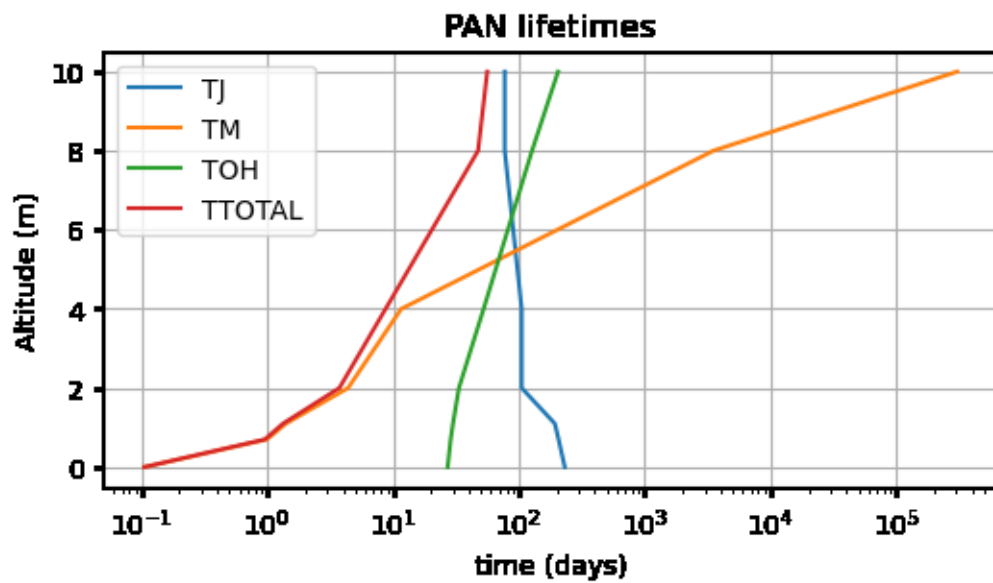
ax.set_title('PAN lifetimes') #set title of the figure

```

ax.grid()#display grids in the figure

plt.show#display the figure in the notebook

```
<function matplotlib.pyplot.show(close=None, block=None)>
```



ALT TOH TJ TM TTOTAL TTOTAL2 TTOTALH

0.0	2.715E+01	2.315E+02	1.057E-01	1.053E-01	1.053E-01	7.298E-02
0.7	2.868E+01	2.067E+02	9.947E-01	9.569E-01	9.569E-01	6.632E-01
1.1	2.992E+01	1.929E+02	1.406E+00	1.333E+00	1.333E+00	9.242E-01
2.0	3.335E+01	1.052E+02	4.389E+00	3.741E+00	3.741E+00	2.593E+00
4.0	5.240E+01	1.052E+02	1.160E+01	8.713E+00	8.713E+00	6.040E+00
8.0	1.271E+02	7.716E+01	3.509E+03	4.737E+01	4.737E+01	3.284E+01
10.0	2.047E+02	7.716E+01	3.044E+05	5.603E+01	5.603E+01	3.883E+01