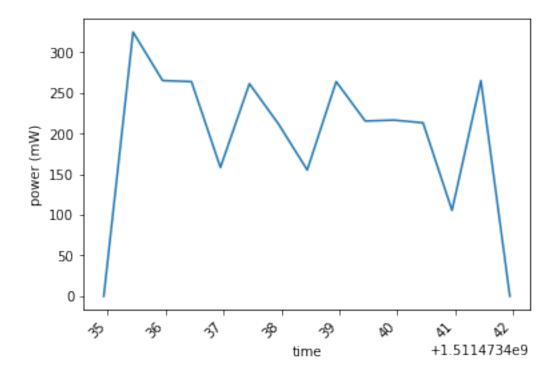
wrapper

November 24, 2017

```
In [9]: #mylist = !(ls | egrep .*.events )
In [10]: testdirs = !(ls | egrep test ) # to get all dirs
        mylist={}
         for dir in testdirs :
             x = !(ls $dir |egrep .*.events )# each element of the list represent an implementat
             mylist[dir[16:]] = (dir,x)
In [11]: %matplotlib inline
         import matplotlib.pyplot as plt
         import numpy as np
         def extractfile(name):
             """ return a dict which contains
             1- the timestamp of start
             2- time stamp of the end
             3- an array of timestamps of meusures
             4- an array of the mesures
             this function is based on the format of the file so anychanges of the structure of
             with open(name) as f :
                 x = [i.split('') for i in f.read().split('\n')]
                 tstart = int(x[1][1][1:]) *1000 # transform them into ms
                 tend = int(x[2][1][1:]) *1000
                 ind = x.index(["##--##"])+1
                 times = [int(i[0][10:-1]) for i in x[ind:][0:-1:2]] ## we added -1 due to the l
                 powers = [float(i[0][6:]) for i in x[ind:][1::2]]
                 duration = (times[-1] - times[0])/1000
                 meanpower = np.mean(powers)
                 energy = sum(powers) / 2
             return { 'tstart' : tstart , 'tend': tend , 'times':times , 'powers':powers, 'duration':
```

1 a sample of hanoi tower

coded with C implementing the recursive solution that solve an instance of 22 diks



2 infos about data

```
In [14]: %lsmagic
```

Out[14]: Available line magics: %alias %alias_magic %autocall %automagic %autosave %bookmark %cat %cd %clear % Available cell magics: %%! %%HTML %%SVG %%bash %%capture %%debug %%file %%html %%javascript %%js %%l Automagic is ON, % prefix IS NOT needed for line magics. In [15]: curdir=!pwd curdir=curdir[0].split('/')[-1] #to get the name of the current floder

we have a set of data composed of instances of hannoitower problem from {{mintours}} towers to {{maxtours}} towers and each instance is run for {{nbiterations}} times

