12/20/22, 2:14 AM plotconfig.py

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1 ...
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 5 ''
7 #importing necessary functions from libraries
8 from numpy import linspace
9 from numpy.fft import fftfreq
10
11 #message signal parameteres
12 \text{ amp\_vm} = 1
13 fm = 10
14 \text{ amp\_vc} = 5
15 fc = 100
16
17 #these are sampling values
18 \text{ fs} = 30 \text{*fc}
19 dt= 1/fs
20 \text{ duration} = 1
21 N = duration * fs
22
23 #generating time axis samples
24 time = linspace(0, duration, N)
25
26 #message and carrier singal variables need to be calculated in the main file
27 \text{ vm} = 0
28 vc = 0
29 vpsk = 0
30
31 #spectrum variables needs to be calculated in the main file
32 spectrum = 0
33
34 #generating frequency axis samples
35 frequency = fftfreq(len(time), dt)
36 print(len(frequency))
37
38
39
```