

```

1 import numpy as np #importing math function library
2 import matplotlib.pyplot as plt #importing graphical library
3 from decimal import getcontext, Decimal
4 import scipy
5 import CtetEoM as CT
6
7 old_settings = np.seterr(all = 'ignore')
8
9 getcontext().prec = 5 #setting decimal allowance
10
11 t = np.linspace(0, 1000.0, 1000) # timestep vector with timestep t[1] - t[0]
12
13 i = [np.array([1, 2.0125, 0.035, 0.1]),\
14      np.array([2.3, 5.3, 0.3, 0.1]),\
15      np.array([2.35, 1.071, 0.04, 0.35]),\
16      np.array([1.01, 5.01, 0.01, 0.2])\
17      ] #array of various initial vectors
18
19
20 def s(vpair, tpair): #defining the equations of motion
21
22     (A1, A2, P1, P2) = tuple(vpair) #stores iterable item from the array vpair
23
24     return np.array([CT.DA1(A1, A2, P1, P2), CT.DA2(A1, A2, P1, P2), CT.OP1(A1, A2, P1, P2), CT.OP2(A1, A2, P1, P2)]).T
25
26
27 def rk4(f, t, y0): #defining runge kutta function for multiple coupled equations with initial conditions
28     #          v0 and time step vector t
29
30     N = len(t)
31
32     y = np.array([k*np.ones(N) for k in y0]).T # N by length(v0) array to store iterations,
33     #                                          # takes transpose
34
35     for ii in range(N-1):
36
37         h = t[ii+1] - t[ii] #
38         k1 = h * f(y[ii], t[ii])
39         k2 = h * f(y[ii] + 0.5 * k1, t[ii] + 0.5 * h)
40         k3 = h * f(y[ii] + 0.5 * k2, t[ii] + 0.5 * h)
41         .. .. ..

```

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G Psacharopoulos



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