

```

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         .. ..

```

# Python Tutorial Poincare

**Sabine Zange**



## **Python Tutorial Poincare:**

## Reviewing **Python Tutorial Poincare**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Python Tutorial Poincare**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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