kadai03

December 13, 2017

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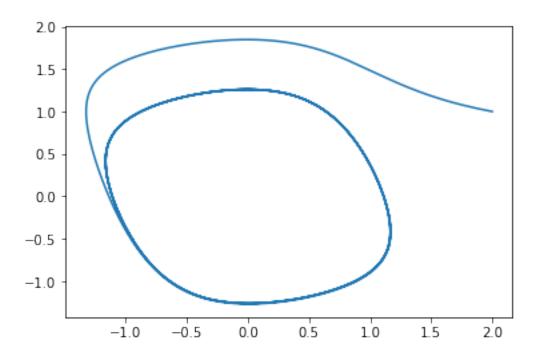
```
In [22]: def ndsolve(fs, x0, t0, tend, dt = 0.01):
#fs:x0:t0:tend:dt:
dim = len(fs)

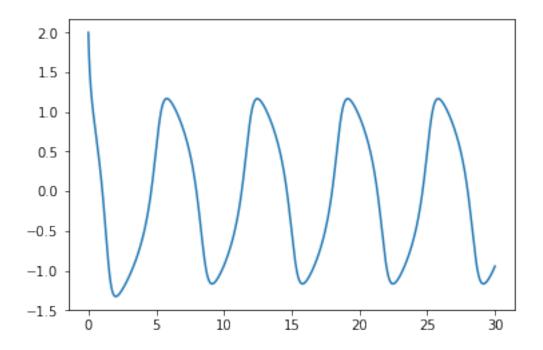
xnext = [0 for i in range(dim)]
x = x0[:]
traj = [[t0, *x0]]
t = t0

while t < tend:
    xnext = list(map(lambda _x, _f: _x + _f(*x) * dt, x, fs))
    # x + f(x)*dt map
    t += dt
    traj.append([t, *xnext])
    x = xnext

return traj</pre>
```

2 FitzHugh-Nagumo





3 Rössler chaos

