

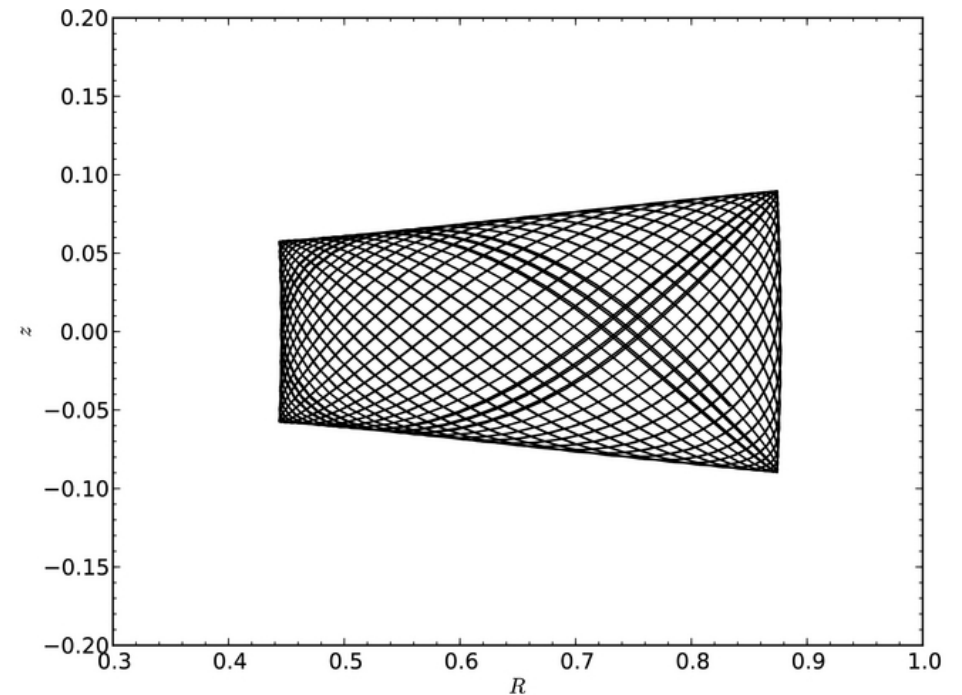
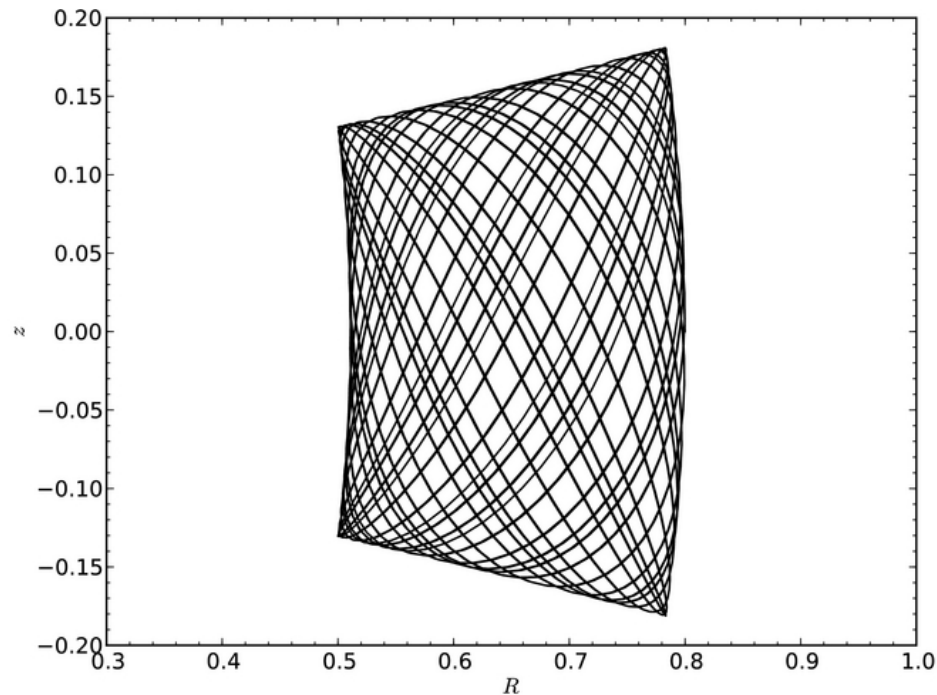
Figure 10. from

galpy: A python Library for Galactic Dynamics

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```
1 import numpy
2 from galpy.potential import MWPotential2014
3 from galpy.potential import evaluatePotentials as evalPot
4 from galpy.orbit import Orbit
5 E, Lz= -1.25, 0.6
6 o1= Orbit([0.8,0.,Lz/0.8,0.,numpy.sqrt(2.*(E-evalPot(0.8,0.,MWPotential2014)-(Lz/0.8)**2./2.)),0.])
7 ts= numpy.linspace(0.,100.,2001)
8 o1.integrate(ts,MWPotential2014)
9 o1.plot(xrange=[0.3,1.],yrange=[-0.2,0.2],color='k')
10 o2= Orbit([0.8,0.3,Lz/0.8,0.,numpy.sqrt(2.*(E-evalPot(0.8,0.,MWPotential2014)-(Lz/0.8)**2./2.-0.3**2./2.)),0.])
11 o2.integrate(ts,MWPotential2014)
12 o2.plot(xrange=[0.3,1.],yrange=[-0.2,0.2],color='k')
```