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[1] %matplotlib inline
"""
This script performs bifurcation analysis on embryonic stem cell model
"""
import platform

if 'darwin' in platform.system().lower():
    from rrplugins import *
else:
    from teplugins import *
import matplotlib.pyplot as plt

sbmlModel = "/Users/phantom/devel/src/tellurium-
examples/BIOMD0000000203.xml"
auto = Plugin("tel_auto2000")

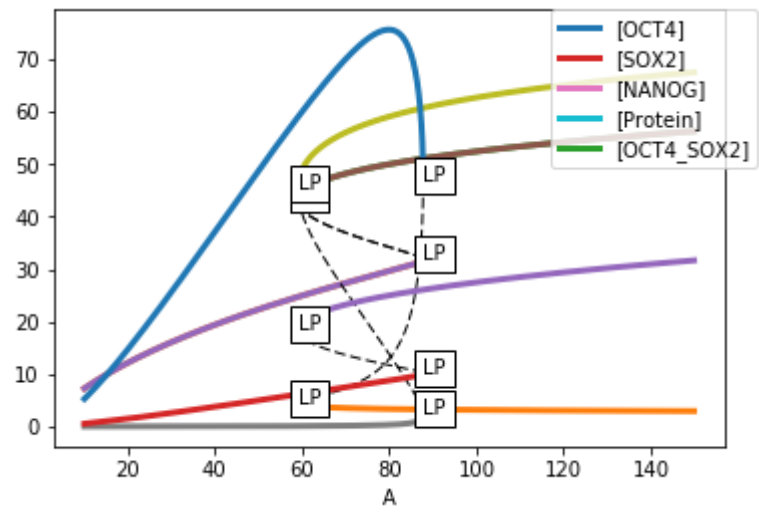
# Setup properties
auto.setProperty("SBML", readAllText(sbmlModel))

# Bifurcation specific properties
auto.setProperty("ScanDirection", "Positive")
auto.setProperty("PrincipalContinuationParameter", "A")
auto.setProperty("PCPLowerBound", 10)
auto.setProperty("PCPUpperBound", 150)

# Set maximum number of points
auto.setProperty("NMX", 5000)

# execute the plugin
auto.execute()

# plot Bifurcation diagram
pts      = auto.BifurcationPoints
lbls     = auto.BifurcationLabels
biData   = auto.BifurcationData
biData.plotBifurcationDiagram(pts, lbls)
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