

In [4]:

```
#streamline_plots
import matplotlib.pyplot as plt
import matplotlib.colors as nc
import numpy as np

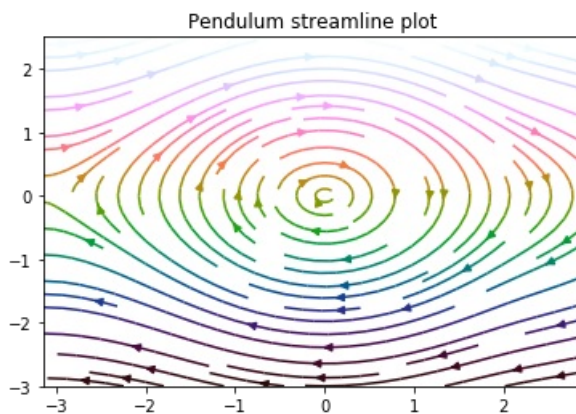
colors=np.loadtxt('mycolormap.txt')
mycmap=nc.ListedColormap(colors, N=None)

x, v = np.meshgrid(np.arange(-np.pi, np.pi, 0.5), np.arange(-3, 3, 0.5))
U = v
V = -np.sin(x)

fig, ax = plt.subplots()
ax.set_title("Pendulum streamline plot")
ax.streamplot(x, v, U, V, color=U, linewidth=1.5, cmap=mycmap)
```

Out[4]:

<matplotlib.streamplot.StreamplotSet at 0x2d0bc559390>



In [5]:

```
#streamline_plot with start_points
import matplotlib.pyplot as plt
import matplotlib.colors as nc
import numpy as np

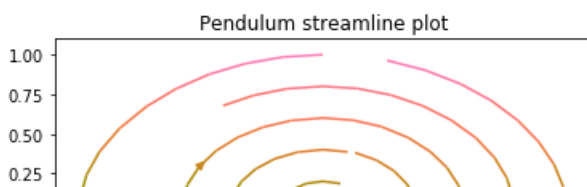
colors=np.loadtxt('mycolormap.txt')
mycmap=nc.ListedColormap(colors, N=None)

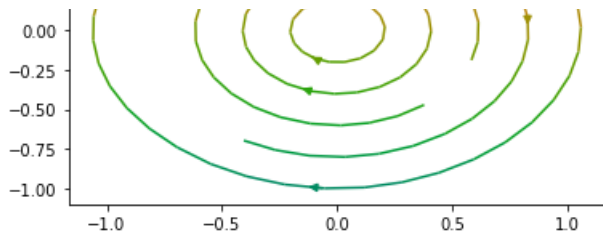
x, v = np.meshgrid(np.arange(-np.pi, np.pi, 0.5), np.arange(-3, 3, 0.5))
U = v
V = -np.sin(x)
start = np.array([[0, 0.2], [0, 0.4], [0, 0.6], [0, 0.8], [0, 1.0]])

fig, ax = plt.subplots()
ax.set_title("Pendulum streamline plot")
ax.streamplot(x, v, U, V, color=U, linewidth=1.5, cmap=mycmap, start_points=start)
```

Out[5]:

<matplotlib.streamplot.StreamplotSet at 0x2d0bc4b6198>





In []: