

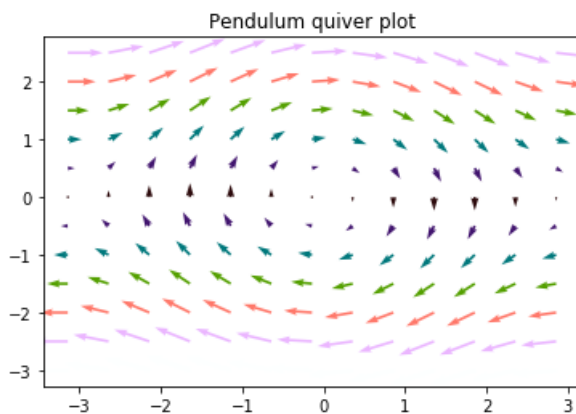
In [2]:

```
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)
C = np.abs(U)

fig, ax = plt.subplots()
ax.set_title("Pendulum quiver plot")
q = ax.quiver(x, v, U, V, C, cmap=mycmap)
```



In [3]:

```
x.shape
```

Out[3]:

```
(12, 13)
```

In [4]:

```
v.shape
```

Out[4]:

```
(12, 13)
```

In [5]:

```
U.shape
```

Out[5]:

```
(12, 13)
```

In [6]:

```
V.shape
```

Out[6]:

```
(12, 13)
```

In [7]:

```
C.shape
```

```
Out[7]:
```

```
(12, 13)
```

```
In [ ]:
```