

# H1\_graphics

February 23, 2022

```
[46]: from mpl_toolkits import mplot3d
import matplotlib.pyplot as plt
```

```
[47]: %matplotlib inline
```

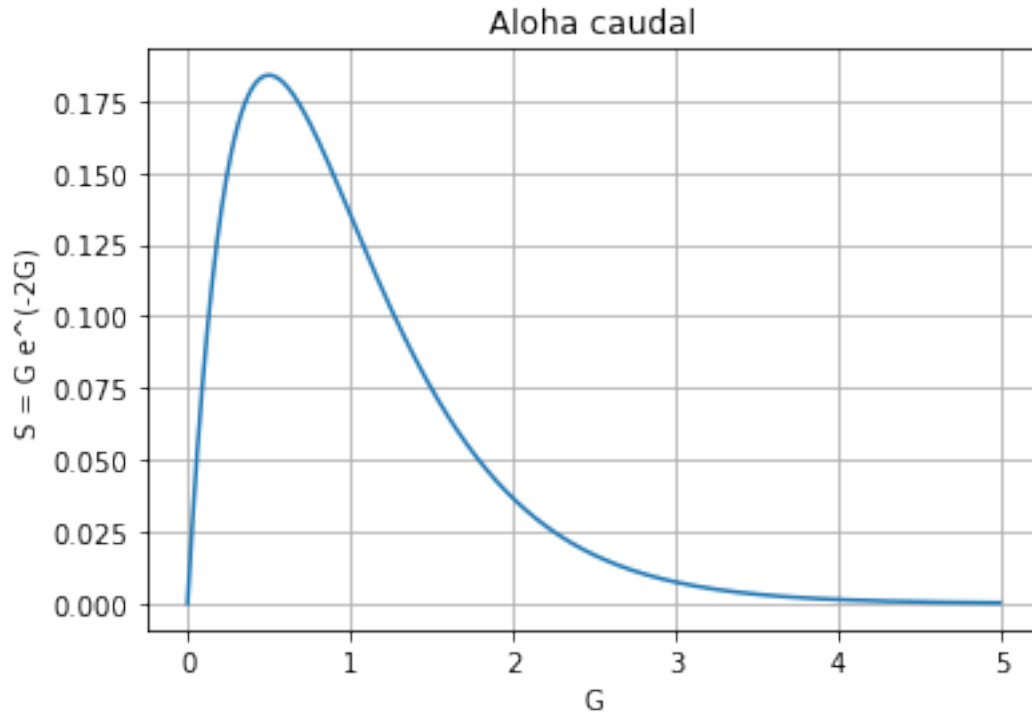
```
[52]: import matplotlib
import matplotlib.pyplot as plt
import numpy as np

# Data for plotting
t = np.arange(0, 5.0, 0.01)
s = t * np.exp(-2*t)

fig, ax = plt.subplots()
ax.plot(t, s)

ax.set(xlabel='G', ylabel='S = G e-2G',
       title='Aloha caudal')
ax.grid()

fig.savefig("Aloha_throughput.png")
plt.show()
```



```
[50]: import matplotlib.pyplot as plt
import numpy as np

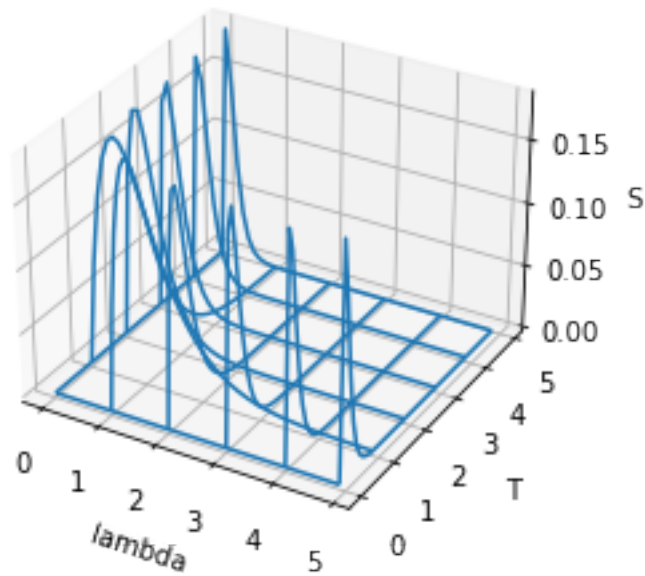
x = np.arange(0, 5.0, 0.1)
y = np.arange(0, 5.0, 0.1)

# Compute z to make the pringle surface.
x2, y2 = np.meshgrid(x, y)
z = x2 * y2 * np.exp((-2) * x2 * y2)

ax = plt.figure(figsize=plt.figaspect(0.5)).add_subplot(projection='3d')
ax.plot_wireframe(x2, y2, z, rstride=10, cstride=10)
ax.set_title("Grafica 3D Aloha caudal ", fontsize=14, fontweight="bold")
ax.set_xlabel("lambda")
ax.set_ylabel("T")
ax.set_zlabel("S")

plt.show()
```

## Grafica 3D Aloha caudal



```
[51]: from mpl_toolkits import mplot3d
import numpy as np
import matplotlib.pyplot as plt

# Creating dataset

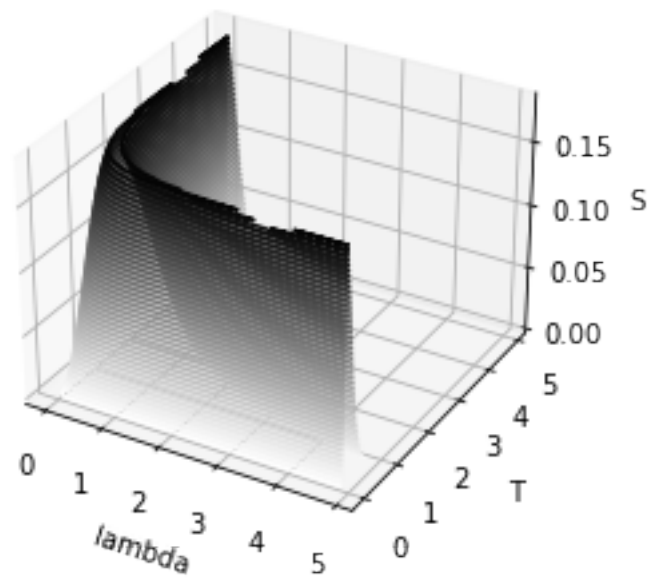
x = np.arange(0, 5.0, 0.1)
y = np.arange(0, 5.0, 0.1)
x, y = np.meshgrid(x, y)
z = x * y * np.exp((-2) * x * y)

# Creating figure
fig = plt.figure()
ax = plt.axes(projection = '3d')
ax.set_title("Grafica 3D Aloha caudal ", fontsize=14, fontweight="bold")
ax.set_xlabel("lambda")
ax.set_ylabel("T")
ax.set_zlabel("S")

# Creating plot
ax.contour3D(x, y, z, 50, cmap='binary')

# show plot
plt.show()
```

### Grafica 3D Aloha caudal



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