P2

September 19, 2018

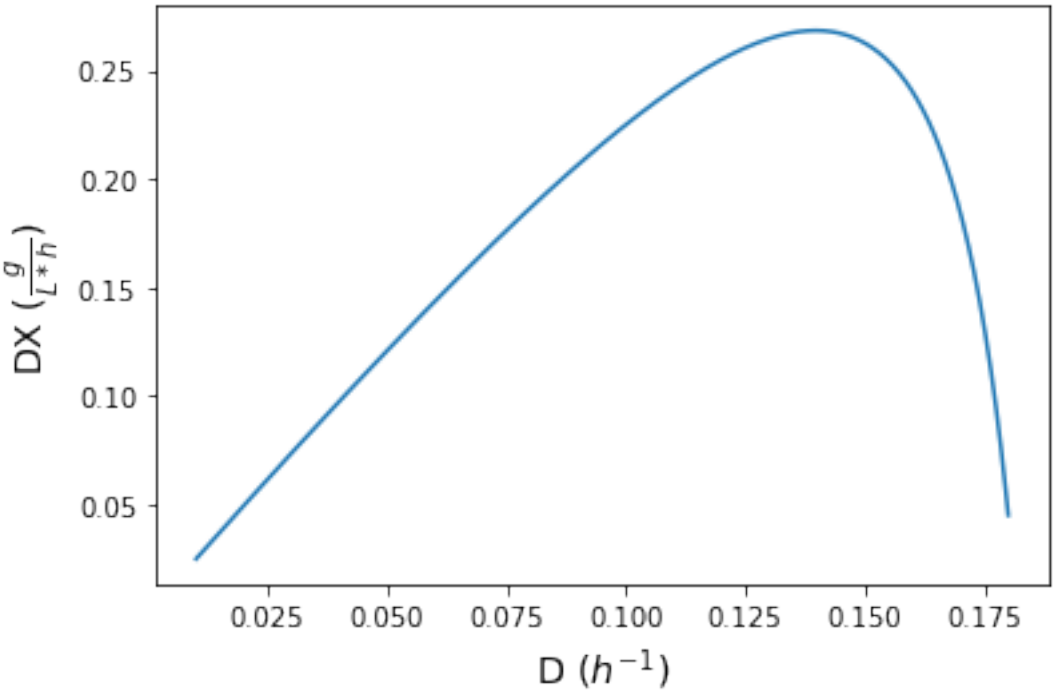
In [47]:
```
import numpy as np
import matplotlib.pyplot as plt
%matplotlib inline

Y = 0.5
Sf = 10
Ks = 1
mu = 0.2

def graph(formula, D_range):
    D = np.array(D_range)
    DX = (D*Y/2)*(Sf   -   (Ks / ( (mu/D)  -1)  )    )
    plt.plot(D, DX)
    plt.xlabel(r'D $(h^{-1})$', fontsize = 14)
    plt.ylabel(r'DX $( \frac{g}{L*h} )$', fontsize = 14)
    plt.show()

def my_formula(t):
    return (D*Y/2)*(Sf   -   (Ks / ( (mu/D)  -1)  )    )

graph(my_formula, np.linspace(0.01,0.18,1000))
```


0.25
0.20
0.15
0.10
0.05
DX ($\frac{g}{L*h}$)
0.025
0.050
0.075
0.100
0.125
0.150
0.175
D (h^{-1})