$Spectrum_Atenuation_Plots$

September 23, 2015

```
In [5]: import matplotlib.pyplot as plt
        import pandas as pd
        import seaborn as sns
        import numpy as np
        %matplotlib inline
In [16]: aldat = pd.read_csv('aldat.dat',header=None)
         agdat = pd.read_csv('agdat.dat',header=None)
         al = aldat[2].as_matrix()
         ag = agdat[2].as_matrix()
         Es = np.linspace(8,121,121-7)
In [17]: fig,ax = plt.subplots(nrows=1,ncols=1,figsize = (14,7))
         ax.semilogy(Es,al,label='Al')
         ax.semilogy(Es,ag,label='Ag')
         ax.set_title('Energy dependent attenuation',fontsize=16)
         ax.legend(loc=0,fontsize=16)
         ax.set_xlabel('KeV',fontsize=16)
         ax.set_ylabel('X-ray attenuation',fontsize=16);
                                       Energy dependent attenuation
       10<sup>3</sup>
     X-ray attenuation
```

KeV

Ag

120

