# An example IPython (Jupyter) notebook for paleomagnetic data analysis

This notebook demonstrates some of the functionality that is possible when using PmagPy functions in an interactive notebook environment

## Import necessary function libraries for the data analysis

The code block below imports necessary libraries from PmagPy that define functions that will be used in the data analysis. Using 'sys.path.insert' allows you to point to the directory where you keep PmagPy in order to import it. **You will need to change the path to match where the PmagPy folder is on your computer.**

In [6]:
```
import sys
#change to match where the PmagPy folder is on your computer
sys.path.insert(0, '/Users/ltauxe/PmagPy')
import pmag,pmagplotlib,ipmag # import PmagPy functions
```

### Scientific Python functions

The numpy, scipy, matplotlib and pandas libraries are standard libraries for scientific python (see http://www.scipy.org). '%matplotlib inline' is necessary to allow the plots to be generated within the notebook instead of in an external window.

In [7]:
```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
%matplotlib inline
```