

Preparations for iWeek September 10th to 13th

Dear participants,

we would like to ask you to prepare a few things before attending the iweek in September. Please note that we will stick to Python as our main programming language.

- Bring your notebook (if you don't have one or can't get access to one please contact maxkiefer@physik.uni-kl.de as soon as possible, I will try to provide you one.)
- Pre-install python or install the anaconda 3.6 package and follow the links
Python 3.5 or newer
Python Numpy, Scipy, Matplotlib
Jupyter notebook
Windows: <https://www.anaconda.com/download/#windows>
Mac: <https://www.anaconda.com/download/#macos>
Linux: <https://www.anaconda.com/download/#linux>
- Have ssh installed (natively on linux and Mac OS)
on windows please install putty (the windows ssh client does not have all features) <https://www.putty.org/>.
- Have git installed and maybe learn some basic commands.
- And most necessary a lot of enthusiasm and spirit.

Don't worry if your laptop is not powerful enough. We will try to give you access to our cluster Elwetritsch, so that everyone can use up to 8 CPU Cores and 20 Gigabytes of RAM. Just in case this would not work, please have everything pre installed. To access the cluster ssh or putty will be needed.

For additional information about the OSCAR iweek, we will be updating our website <https://www.physik.uni-kl.de/agfleischhauer/dokuwiki/doku.php?id=teaching:teaching>.

Literature:

We will need only this review:

- Ulrich Schollwöck, The density-matrix renormalization group in the age of matrix product states, <https://arxiv.org/abs/1008.3477>

Best regards,
Maximilian Kiefer-Emmanouilidis