**Instructions for the hands-on exercise organized by Stefan Kühn** <[s.kuehn@cyi.ac.cy](mailto:s.kuehn@cyi.ac.cy)>

Dear participant,  
  
on Tuesday, August 18 there will be a hands-on tutorial on the Qiskit SDK for Quantum Development. Please note that the tutorial will not be a beginner's introduction to quantum computing and some basic knowledge will be required, we highly recommend that you follow the talk by Martin Savage beforehand. If you would like to participate in the tutorial please follow the instructions below to setup Qiskit on your computer.

Information can be found also on github: <https://github.com/kuehnste/QiskitTutorial>  
  
Prerequisites:

* Qiskit requires Python 3.5 or later. If you do not have Python, we recommend installing [Anaconda](https://www.anaconda.com/products/individual).
* To separate Qiskit from existing Python packages, we recommend setting up a virtual environment. If you are using Anaconda, you can follow the instructions [here](https://qiskit.org/documentation/install.html). If you are using pip, instructions how to create a virtual environment can be found [here](https://packaging.python.org/guides/installing-using-pip-and-virtual-environments/).
* After creating a new environment, activate it and make sure you have the latest version of pip. To do so run pip install --upgrade pip. Afterwards install the Qiskit package via
  + pip install qiskit
  + pip install qiskit[visualization] (if you are using zsh, the last part needs to be in quotes)
* Throughout the tutorial we will work with Jupyter Notebooks which can be installed via conda install -c conda-forge jupyterlab in case you are using Anaconda, or in case you do not use Anaconda via pip install jupyterlab.

To check if the installation was successful, you can now start a Python prompt or a Jupyter notebook and run the following commands

import qiskit  
qiskit.\_\_qiskit\_version\_\_

This should display a dictionary containing the version numbers of every part of the Qiskit SDK.

We are looking forward to seeing you on Tuesday!