**New dummy device**

* Set up a dummy impedance analyser (dummy ZA) based on the dummy SMU by Diego. Modified inputs and number of outputted columns.
* Added the dummy ZA to the list of devices in the .ini file (using the settings for the dummy SMU as a template.

**New experiment**

* Added function mode, to change plots’ labels when the fixed mode is changed.
* update\_plot\_axis in Mordor, to update plots’ labels when the fixed mode is toggled.
* Added function update\_header, to update plots’ labels when the labels are changed, so the columns in the data file match those in the experiment.

**Modifications to mordor.py**

* Added CV button
* Added cv function
* Imported class CV from module cv (from \Devices))
* Modified plotting system to have explicit axes, in order to be able to plot double log plots
* Added function update\_plot\_axis, which updates the plots’ labels when the measurement mode is toggled between fixed frequency and fixed bias. The function calls the update\_labels , update\_yscale and update\_xscale functions in plot\_utils.
* Added a check for the presence of “x\_scale” key in the plot\_format dictionary, as IV and other experiments don’t have this.

**Modifications to plot\_utils.py**

* Added function update\_ labels, which updates a plot’s labels.
* Added function update\_ yscale, which updates a plot’s Y scale (linear or log).
* Added function update\_ xscale, which updates a plot’s X scale (linear or log).

**Modifications to py3k.py in numpy\compat**

* Changed line 35 to encode as utf-8

**Modifications to Experiments iv.py and spectroscopy.py**

* Changed the values for Ch1\_scale and Ch2\_scale from ‘lin’ to ‘linear’, so that matplotlib function scale.py can read the string directly and set the y scale