BLonD meeting 2017-06-16

Meeting minutes
- To be done by Alex and Konstantinos

Cavity feedback
- Being implemented

Clean-up
- Markus: unittest done for GeneralParameters
    - To be checked if one can associate an ID to a runtime error
    - Test on synchronous data still fails as the preprocess option is not consistent
    - Helga: correct the example case in GeneralParameters
    - Unittest should start with test_*
    - Update travis.yml
- Alex and Markus: input_check() for GeneralParameters and RFParameters
    - Use if isinstance() to check type of function
- Alex, Danilo, Markus: clean up slices
    - Next regular number changes the frequency resolution for the impedance calculation demanded by the user; (Markus needs an exact frequency resolution)
    - Make it optional whether rounding to next regular is done or not

Assembler
- Design patterns applicable to the tracker
- Alex: even with the same objects, might have a different order
    - Different weight to different objects?
- Assembler would still be optional
- Start with the tracker only, to get rid of the "if"s. See later whether a full assembler would be interesting.
- Wiring could be done by an object or the user him/herself

1. "Builder" design pattern: various mixtures of other classes
    a. Getting the right object depending on the input
2. "Pipeline" design pattern: execute in a given order
    a. To skip some objects, can combine it with a "Builder" object
3. "Strategy" design pattern: director and different clients; algorithm executed by different clients are different
    a. Input/output should be the same for the different strategies
    b. Getting the right method depending on the input

AOB
- Pending pull request on C++ tracker for resonator (Konstantinos)
- 5 pending issues
- Satellites (Alex, Simon)
- New batch

Next meeting: 30th June in the JBA room