Tutorial instructions

1) Select an observational project (experiment) from the lecture documents

2) Based on the lecture documents define a scientific project

3) Do a fast literature review to answer the following question

- Instrumental setup
  - Telescope size and expected resolution
  - Frequencies of observation
  - Detector chain: type of detectors, cooling temperature, etc

- Sensitivity
  - Number of detectors and individual sensitivity ? How does it affect your scientific project?
  - Integration time ?
  - Calibration ?

- Observational constraints
  - Total/partial coverage of the sky ? Does it limit your scientific project?
  - Atmospheric contamination ?
  - Astrophysical foreground contamination ?

- Data analysis
  - Specific data analysis methods to be developed ?
  - Large data set expected ?

4) Taking into account what you found for the experiment discuss what the performance would be for your scientific project

5) Write a short presentation discussing:

- ✔ Motivation of the scientific project
- ✔ Instrument description
- ✔ Summary of expected results and performance
- ✔ Caveats and possible draw backs.