**PHYS-C0258 Quantum Laboratory**

**Report template**

**General instructions**

For each experiment, 1 group member should complete 1 report including the gathered results. The report length should be 4-5 pages long, following the structure given below. We strongly recommend writing the report using Latex and the language used should be English. Students have 1 week to write a first **complete** draft of the report. TAs will provide feedback on the 1st draft; students then have an additional week to perform the changes if they wish to do so. Please note that if the 1st draft already meets the requirement to pass, submission of a 2nd draft is optional.

**Report structure**

1. Introduction (½ - 1 page)
   1. What are the aims of the experiment?
   2. What are the key theoretical concepts behind the experiment? TA will provide the necessary background information depending on the experiment. If you use other sources, remember to cite them!
2. Method (½ - 1 page)
   1. Briefly describe how the results were obtained and analysed. For example (not all points may be relevant depending on the experiment):
      1. Picture of the setup
      2. What key instruments were used?
      3. What were the key settings?
      4. Did the data need to be processed and how?
3. Results (1-2 pages)
   1. TA will provide for each experiment the requirements for this section. Please answer all the set questions. Depending on the experiment, if big figures are required, they will not be included in the page count.
   2. Remember to label the axis in the figures and to include units!
   3. Make sure all figures have good enough quality and are big enough such that they can easily be read
   4. Remember to comment on the results as well! Do they match the theory (qualitatively or quantitatively)? If not, why? Were there any obvious errors/anomalies?
4. Conclusion (½ page)
   1. Was the aim of the experiment met?
   2. What were the key results?