

## Measurement Techniques / Space Lab 1 (summer 2026):

### General structure of the report for the practical

The report of the experiment should consist of the following points:

0. **Title of the experiment:** group and name of the students; date
1. **Introduction:** Short description of the experiment and its objectives
2. **Theoretical background:** Scientific background on which the experiment is based (1. Why is the measured quantity important, what is it important for; 2. Physics behind the measurement method)
3. **Experimental set up:** Description of the set up used; components and their principle of operation
4. **Experimental procedure:** Description of each step followed during the experiment, indicating the time and all relevant details
5. **Data analysis:** Description of the data obtained, format and conversion procedures required to obtain the results for interpretation
6. **Results and error analysis:** Final mathematical results, giving also the units and with the corresponding associated error. A detailed description of the error analysis should also be included
7. **Discussion of results:** Interpretation of the final results in relation to the objectives of the experiment. You can use the questions given in the instructions for the experiment as a guideline
8. **Appendix:** Raw data in a table or in digital form

The report should be about 6 – 8 pages excluding the appendix. We suggest to use Times-Roman or a similar font at size 11pt with line spacing of 1.5.

**Please use your own words to elaborate the protocol, in particular the points 1 to 4. A simple reproduction of the text given in the instructions for the experiment or the internet will NOT be accepted. AI tools may be used for information collection but not for authoring the report.**

If you have specific questions to one of the experiments, please contact the corresponding tutor. If you have more general questions, please contact

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