

Laboratory

General information:

TA	Max Märker
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Course information:

Attendance at all scheduled laboratories is compulsory. You are expected to participate in the pre-labs, read the instructions and complete any pre-lab assignments before you arrive at the lab. Use a bound book with a square grid on each page to record all data, observations, interim analyses, unusual procedures and difficulties encountered. You must have the teaching assistant sign your work before you leave the lab. You are expected to prepare your report at home and submit it at the next regularly scheduled lab at the latest.

If you missed a lab, you must present a documented reason (e.g. illness) in order to makeup for it. Arrange an appointment with the TA. Note that only **one** lab can be made up for.

What the report should include:

1. A brief summary of the purpose of the experiment and the experimental approach taken.
2. Short summary of the theoretical foundations and formulas needed in the experiment.
3. Well-organized tables of raw data that you obtained and intermediate results derived from it, including appropriate graphs.

4. A clear statement of your final results with an assessment of the factors affecting their accuracy.
5. Answers to all questions asked in the lab packet.
6. A brief discussion of what you personally learned from doing the experiment.

We do not accept reports submitted electronically. However, printed reports can be pasted into your note book.

Experimental laboratory schedule:

Date	Time	Place	Exp.	Group
<u>Thu April 27</u>	16:40 – 18:10		MV (pre-lab)	all
Tue May 2	11:10 – 18:10	REC D114	MV	A
Mon May 15	16:40 – 18:10	REC C118	HB (pre-lab)	all
Tue May 16	11:10 – 18:10	REC D308	HB	A
Mon May 29	16:40 – 18:10	REC C118	AS (pre-lab)	all
Tue May 30	11:10 – 18:10	REC D308	AS	A
Mon Jun 12	16:40 – 18:10	REC C118	FH (pre-lab)	all
Tue Jun 13	11:10 – 18:10	REC D109	FH	A
Mon Jun 26	16:40 – 18:10	REC C118	EB (pre-lab)	all
Tue Jun 27	11:10 – 18:10	REC D307	EB	A

MV: Milikan's oil drop experiment

HB: Photoelectric Effect

AS: Atomic Spectra

FH: Atomic Excitation

EB: Electron Diffraction

Note:

- **First pre-lab on Thursday April 27!** Next pre-labs on Monday (even weeks).
- Lab courses on Thursday (even weeks).
- Time for doing experiments should not exceed **3 hours**.