

Lab Report Template

Your Name

Partner Name

September 16, 2019

Abstract

Abstract section. Briefly outline what the report covers and state results if applicable. To typeset math inline with text, use dollar signs on either side of your equation: $g = 9.81m/s^2$

1 Theory

Define sections and subsections to organize your report.

1.1 Part 1

You can add figures with descriptive captions and refer back to them later:

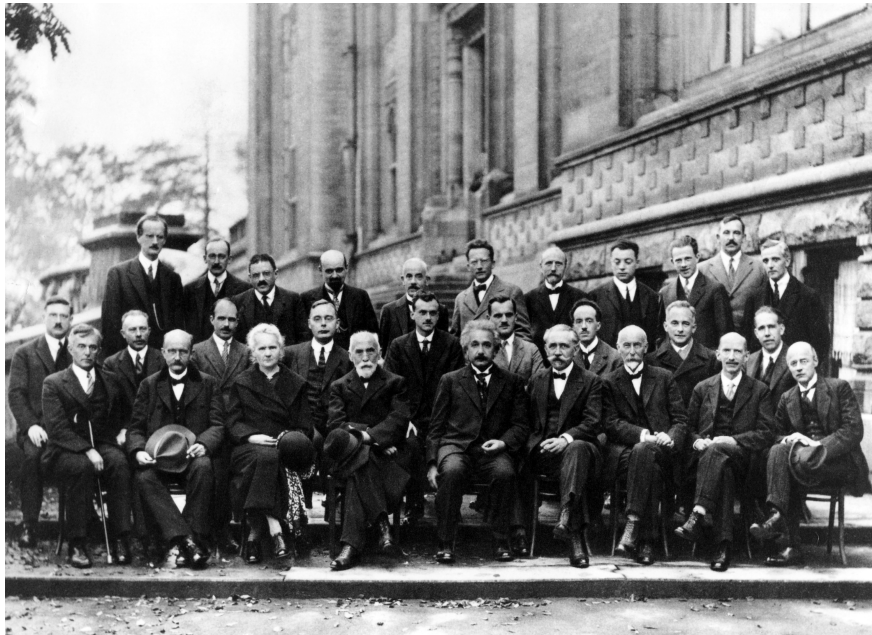


Figure 1: The 5th Solvay conference, 1927

Numbered equations can be constructed as

$$\vec{L} = I\vec{\omega} \tag{1}$$

2 Experiment

You can use `\autoref` to refer back to [Figure 1](#) or [Equation 1](#) automatically.

3 Data Analysis

Might want a table to present data:

Trial	θ_1	θ_2
1	1	2
2	3	4

Table 1: A good table with useful data

I highly recommend using [the L^AT_EX table generator](#) to format your L^AT_EX tables.
Of course, error propagation will be in here:

$$\sigma = \sqrt{\left(\frac{\partial}{\partial x}\right)^2 \sigma_x^2 + \left(\frac{\partial}{\partial y}\right)^2 \sigma_y^2 + \left(\frac{\partial}{\partial z}\right)^2 \sigma_z^2 \dots} \quad (2)$$

Maybe some weighted mean:

$$\begin{aligned} w_i &= \frac{1}{\sigma_i^2} \\ x_{\text{mean}} &= \frac{\sum_{i=1}^N w_i x_i}{\sum_{i=1}^N w_i} \\ \sigma_{\text{mean}} &= \frac{1}{\sqrt{\sum_{i=1}^N w_i}} \end{aligned}$$

4 Conclusion

Summary

5 Remarks

remarks