

RevTex example

Jeremy Worsfold*

School of Physics, University of New South Wales - Sydney 2052, Australia

(Dated: June 12, 2025)

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

I. INTRODUCTION

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus. Donec aliquet, tortor sed accumsan bibendum, erat ligula aliquet magna, vitae ornare odio metus a mi. Morbi ac orci et nisl hendrerit mollis. Suspendisse ut massa. Cras nec ante. Pellentesque a nulla. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam tincidunt urna. Nulla ullamcorper vestibulum turpis. Pellentesque cursus luctus mauris.

Nulla malesuada porttitor diam. Donec felis erat, congue non, volutpat at, tincidunt tristique, libero. Vivamus viverra fermentum felis. Donec nonummy pellentesque ante. Phasellus adipiscing semper elit. Proin fermentum massa ac quam. Sed diam turpis, molestie vitae, placerat a, molestie nec, leo. Maecenas lacinia. Nam ipsum ligula, eleifend at, accumsan nec, suscipit a, ipsum. Morbi blandit ligula feugiat magna. Nunc eleifend consequat lorem. Sed lacinia nulla vitae enim. Pellentesque tincidunt purus vel magna. Integer non enim. Praesent euismod nunc eu purus. Donec bibendum quam in tellus. Nullam cursus

pulvinar lectus. Donec et mi. Nam vulputate metus eu enim. Vestibulum pellentesque felis eu massa.

Quisque ullamcorper placerat ipsum. Cras nibh. Morbi vel justo vitae lacus tincidunt ultrices. Lorem ipsum dolor sit amet, consectetur adipiscing elit. In hac habitasse platea dictumst. Integer tempus convallis augue. Etiam facilisis. Nunc elementum fermentum wisi. Aenean placerat. Ut imperdiet, enim sed gravida sollicitudin, felis odio placerat quam, ac pulvinar elit purus eget enim. Nunc vitae tortor. Proin tempus nibh sit amet nisl. Vivamus quis tortor vitae risus porta vehicula.

Fusce mauris. Vestibulum luctus nibh at lectus. Sed bibendum, nulla a faucibus semper, leo velit ultricies tellus, ac venenatis arcu wisi vel nisl. Vestibulum diam. Aliquam pellentesque, augue quis sagittis posuere, turpis lacus congue quam, in hendrerit risus eros eget felis. Maecenas eget erat in sapien mattis porttitor. Vestibulum porttitor. Nulla facilisi. Sed a turpis eu lacus commodo facilisis. Morbi fringilla, wisi in dignissim interdum, justo lectus sagittis dui, et vehicula libero dui cursus dui. Mauris tempor ligula sed lacus. Duis cursus enim ut augue. Cras ac magna. Cras nulla. Nulla egestas. Curabitur a leo. Quisque egestas wisi eget nunc. Nam feugiat lacus vel est. Curabitur consectetur.

Suspendisse vel felis. Ut lorem lorem, interdum eu, tincidunt sit amet, laoreet vitae, arcu. Aenean faucibus pede eu ante. Praesent enim elit, rutrum at, molestie non, nonummy vel, nisl. Ut lectus eros, malesuada sit amet, fermentum eu, sodales cursus, magna. Donec eu purus. Quisque vehicula, urna sed ultricies auctor, pede lorem egestas dui, et convallis elit erat sed nulla. Donec luctus. Curabitur et nunc. Aliquam dolor odio, commodo pretium, ultricies non, pharetra in, velit. Integer arcu est, nonummy in, fermentum faucibus, egestas vel, odio.

Sed commodo posuere pede. Mauris ut est. Ut quis purus. Sed ac odio. Sed vehicula hendrerit sem. Duis non odio. Morbi ut dui. Sed accumsan risus eget odio. In hac habitasse platea dictumst. Pellentesque non elit. Fusce sed justo eu urna porta tincidunt. Mauris felis odio, sollicitudin sed, volutpat a, ornare ac, erat. Morbi quis dolor. Donec pellentesque, erat ac sagittis semper, nunc dui lobortis purus, quis congue purus metus ultricies tellus. Proin et quam. Class aptent taciti sociosqu ad litora

* j.worsfold@unsw.edu.au

| Col 1 (N m) | Col 2 | Col 3 | Col 4 |
|-------------|-------|-------|-------|
| 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 |

TABLE I: Caption

| Left | Centered | Decimal | Right |
|------|----------|---------|-------|
| 1 | 2 | 3.001 | 4 |
| 10 | 20 | 30 | 40 |
| 100 | 200 | 300.0 | 400 |

TABLE II: An example table

torquent per conubia nostra, per inceptos hymenaeos. Praesent sapien turpis, fermentum vel, eleifend faucibus, vehicula eu, lacus.

II. TABLES AND FIGURES

You can force tables and figures to be in specific areas using the `[h]` option but generally, I think it's best to let the compiler find where it should go. Other options include `[t]` for top of the page, or `[b]` for bottom of the page. Usually in journals like APS, figures go at the top. You can also just move it about in the text to move the figure/table onto another page. But make sure it's close or directly after being referred to in the text.

III. OTHER PACKAGES

A. SI units

An example use of units $52.3 \text{ N} = 52.3 \text{ kg m}^{-2}$.

B. physics package

$$\int_{-\infty}^{\infty} e^{-x^2} dx = \sqrt{\pi} \quad (1)$$

$$\int_{-\infty}^{\infty} e^{-x^2} dx = \sqrt{\pi} \quad (2)$$

$$\frac{\partial^2 u}{\partial x^2} = \frac{\partial^2 u}{\partial x^2} \quad (3)$$

IV. REFERENCING TEXT

This is a reference to Section I. This is a neater reference to section I or Section I. It also works for equations such as eq. (1), as opposed to Eq. (1). However, if you directly mention that the thing you're referring to is an equation, ODE, PDE etc, then it's probably better practice to just give the equation number. For example, substituting eq. (1) into the PDE (1) and simplifying, we obtain... You can also reference figures like fig. 1 or by sub figure: fig. 2a.

A. Citations

I recommend you use `natbib` to do referencing, this works well with the `revtex` documentclass which also comes with a bibliography style. In this 'vancouver' referencing style, you only refer using a number so the only command you really need is `cite`. For instance, this is a nod to a great mathematician [1]. Citing multiple sources at the same time just requires separating each key with commas [1, 2].

Give your entries in the bibliography useful keys and try to keep to a convention, e.g. `<lead author><date><first word of title>`. Reference managers (and google scholar) will automatically do things like this. Wrapping text with `{ }` brackets ensures words stay capitalized.

-
- [1] Alan Mathison Turing. The chemical basis of morphogenesis. *Bulletin of Mathematical Biology*, 52:153–197, 1990.
- [2] J.W. Cooley, P.A.W. Lewis, and P.D. Welch. Historical notes on the fast fourier transform. *Proceedings of the IEEE*, 55(10):1675–1677, 1967. doi:10.1109/PROC.1967.5959.

Appendix A: First appendix

The numbering of equations and sections changes after the appendix

$$e^{i\pi} \equiv -1. \quad (\text{A1})$$

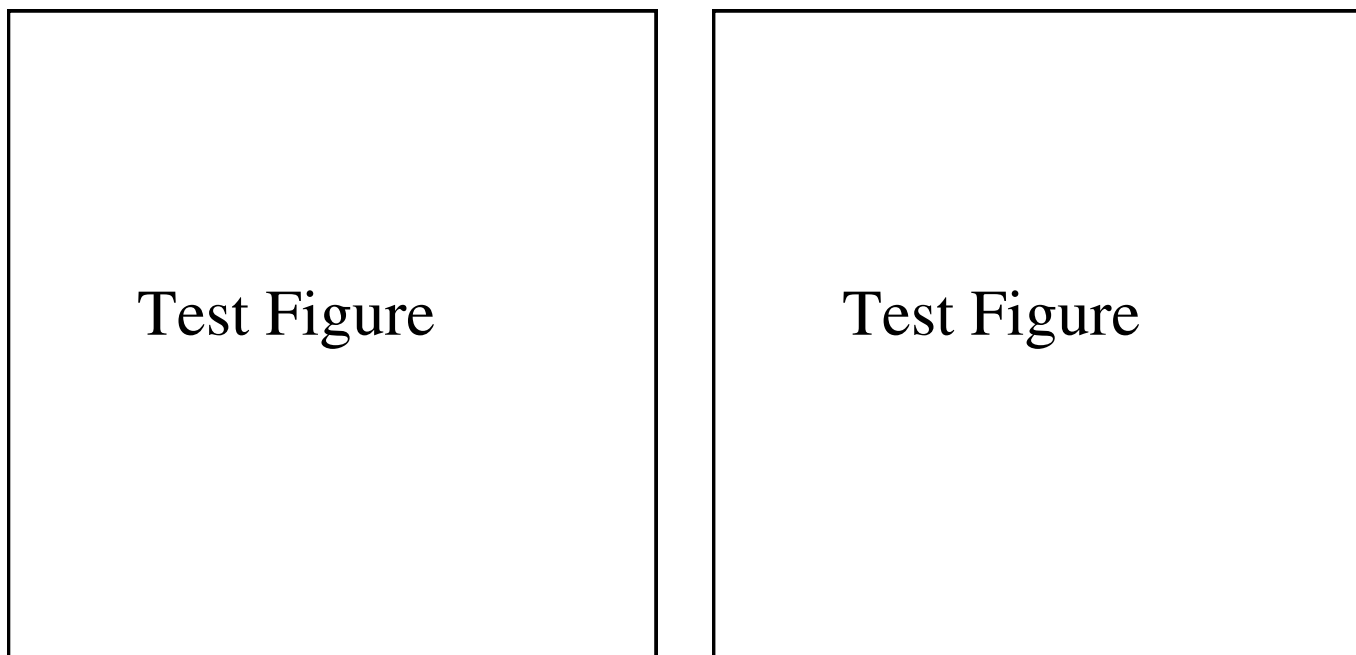


FIG. 1: An example of sub-figures

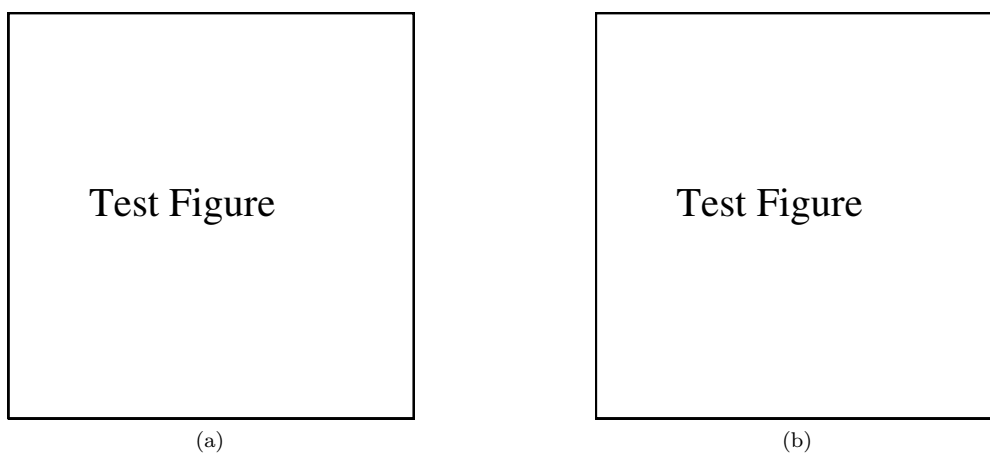


FIG. 2: A graphical depiction of the setup