

Temperfect mug

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I. INTRODUCTION

The Temperfect mug has an extra layer of insulation which brings your hot beverage to a more pleasant temperature, allowing you to enjoy your freshly-brewed drink right away. We want to better understand this mug by conducting an experiment where the cooling of beverage will be measured. The experiment will be conducted on both the Temperfect mug and Bodum thermos cup.

REFERENCES

- Reference 1
- Reference 2

II. THEORY

III. METHOD

The Temperfect mug and Bodum thermos cup were both filled with 3dl of almost boiling water. The lids were not put on to allow temperature logging while the water in the mugs cooled. The temperature in the air outside of the mug was $T_a = 22^\circ$.

IV. RESULTS

V. DISCUSSION

VI. CONCLUSION

ACKNOWLEDGMENTS

I would like thank myself for writing this beautiful document.

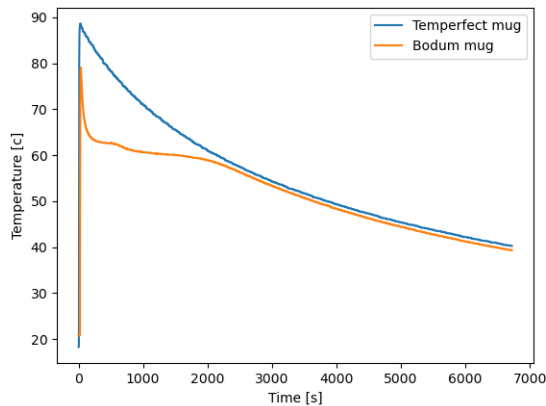


Figure 1. Temperature against time of both mugs

Appendix A: Name of appendix

This will be the body of the appendix.

Appendix B: This is another appendix

Tada.

Note that this document is written in the two-column format. If you want to display a large equation, a large

figure, or whatever, in one-column format, you can do this like so:

This text and this equation are both in one-column format.

[1]

$$\frac{-\hbar^2}{2m}\nabla^2\Psi + V\Psi = i\hbar\frac{\partial}{\partial t}\Psi \quad (\text{B1})$$

Note that the equation numbering (this: B1) follows the appendix as this text is technically inside Appendix B. If you want a detailed listing of (almost) every available math command, check: <https://en.wikibooks.org/wiki/LaTeX/Mathematics>.

And now we're back to two-column format. It's really easy to switch between the two. It's recommended to keep the two-column format, because it is easier to read, it's not very cluttered, etc. Pro Tip: You should also get used to working with REVTeX because it is really helpful in FYS2150.

One last thing, this is a code listing:

```
This will be displayed with a cool programming font!
```

You can add extra arguments using optional parameters:

```
This will be displayed with a cool programming font!
```

You can also list code from a file using `\lstinputlisting`. If you're interested, check https://en.wikibooks.org/wiki/LaTeX/Source_Code_Listings.

This is a basic table:

Table I. This is a nice table

| | | |
|-------|-------|-------|
| Hey | Hey | Hey |
| Hello | Hello | Hello |
| Bye | Bye | Bye |

You can a detailed description of tables here: <https://en.wikibooks.org/wiki/LaTeX/Tables>.

This is a more advanced table:

Table II. Tabell eksempel

| Partikkelindeks | Posisjon | Hastighet |
|-----------------|----------|-----------|
| (i) | (m) | (m/s) |
| 0 | 139.22 | 12.4 |
| 1 | 14.88 | 18.7 |
| 2 | 233.9 | 10.10 |
| 3 | 816.12 | 13.4 |

I'm not going to delve into Tikz in any level detail, but here's a quick picture:

If you want to know more, check: <https://en.wikibooks.org/wiki/LaTeX/PGF/TikZ>.

[1] This equation is actually from quantum mechanics. "It's called Schrödinger's Time-Dependent Wave Equation", named after the awesome Austrian physicist Erwin Rudolf Josef Alexander Schrödinger. Yep, the "Schrödinger's cat" guy. Pretty cool dude actually, check his wiki page: https://en.wikipedia.org/wiki/Erwin_Schrodinger. He was

physics' no. 1 Ladies' man if there ever was one. Anyway, you will learn more about this equation in FYS2140. You can also find it printed on a glass wall in the UiO Physics Building (it really is that important).

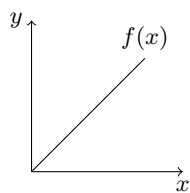


Figure 2. This is great caption