



MSc Thesis Title

Author:
Author's Full name

Supervisor's Full name Co-supervisor's full name

Research work performed at

Research Group name

to obtain a Master of Science Degree in

Master Degree name

Examination Committee

Chairperson: Chairperson's full name Supervisor: Supervisor's Full name

Member of the Committee: Supervisor's Full name

Supervisor's Full name

Month & Year

"Some sentence"

Someone in Somewhere

Acknowledgments

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Resumo

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Palavras-chave: keyword 1; keyword 2; keyword 3



Abstract

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Keyword 1; Keyword 2; Keyword 3



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Glossary

BH Black Hole.

BHB Black Hole Binary.

CDM Cold Dark Matter.

DM Dark Matter.

GR General Relativity.

GW Gravitational Wave.

MACHO Massive Compact Halo Object.

WIMP Weakly Interacting Massive Particle.



Chapter 1

How to use this template

This template provides a carefully structured framework for the writing of a graduate level thesis. It is in accordance with the directives of Instituto Superior Técnico (University of Lisbon) but can be easily adapted for use in other institutions. The current version comes out of the joint effort of several former student's of the Engineering Physics Master's program: Diogo Ribeiro , André Cordeiro and Pedro Cosme.

The following sections describe the structure of the template and how one can best make use of it.

1.1 Document structure

The Thesis template is separated into several files for easy editing. The main.tex file serves as the base document from where all other files are inserted. In the main folder, you will find 4 separate folders.

1.1.1 The /config folder

The config folder contains two configuration files that should be edited with care:

- thesis_preamble.tex Contains all packages required by the template as well as some useful ones for writing mathematical expressions, defining tables and including figures. It also contains the commands for setting up the thesis geometry and look.
- my_commands.tex Contains used defined commands. The only default command there defined is the \redref that inserts a '[REF]' where you know you need to at a reference but still don't have it in the bibliography.

1.1.2 The /input folder

After the document is configured, the actual writing can begin. In the input folder you will find several folders with several documents inside:

- /01_Cover_Page Two possible cover templates exist inside this folder. They can be chosen by changing the associated file name in main.tex. Once chosen, you should edit the corresponding cover page file to fit your needs (name, course, ...)
- /02_Front_Matter The Front Matter of a thesis is composed of the Dedication,
 Acknowledgements, Abstract and Resumo files. In the dedication file you may dedicate
 the thesis to someone or write a quote. The Acknowledgements page allow you to
 acknowledge a funding grant, some organisation, or people whose importance to you
 and your work should be mentioned. The Abstract and Resumo pages should be
 essentially the same (albeit in different languages) and should contain a brief summary
 of your work.
- /03_Glossary_and_Nomenclature The Glossary pages should contain important acronyms that you use throughout the thesis. You may also include mathematical symbols to form a Symbol page (uncomment the appropriate section in the main.tex file)
- /04_Chapters The main writing happens inside this folder. Here you should create a separate file for each chapter. All chapter files should start with

```
\chapter{Chapter name}
\label{chapter:chapter_name}
```

as to allow you to refer to the chapter later down the writing.

/05_Appendix – The appendix folder works in the same fashion as the chapter's folder.
 Separate files for each appendix should be created and edited.

1.1.3 The /figures folder

All graphics to be included in the main document should be placed inside this folder. We recommend separating the files to be included in separate folders according to the chapter they are to be place in. The second chapter of this template contains some examples of how to incorporate the graphics in the main text.

1.1.4 The /bib folder

The last folder to be mentioned is the /bib folder. Inside you will find the bibliography bibliography.bib file where all the references should be placed. Although the bibliography could be inside the /input folder, we choose to place it in it's own folder due to it's importance. The bibliography entries should have the following format:

```
@article{Einstein:1905ve,
author = "Einstein, Albert",
title = "{On the electrodynamics of moving bodies}",
doi = "10.1002/andp.200590006",
```

```
journal = "Annalen Phys.",
volume = "17",
year = "1905"
}
```

and be cited with the \cite command as [1].

The easiest way to assure consistency with the formatting of each entry is to retrieve them from the same website (InspireHEP, NASA/ADS, ...).

1.2 Useful links

To take the biggest advantage possible of this template it is useful to know the ins and outs LATEX. This usually takes time, but it is not a daunting task. For a start, the Overleaf website contains some straightforward tutorials on how to edit Latex files. After the basics, Stackexchange can help you with more specific problems – almost always there is someone else with a similar problem!

Specific questions with the template and possible corrections can be mentioned in the Github repo.

Chapter 2

A Template chapter

This chapter contains some examples of how to use equations, tables and figures in the template. The last section shows how it all comes together in the final document.

2.1 Equations

Single line equations

$$I = \int ds = \int_{t} \sqrt{\left(\frac{dx}{dt}\right)^{2} + \left(\frac{dy}{dt}\right)^{2} + \left(\frac{dz}{dt}\right)^{2}} dt.$$
 (2.1)

$$ds^{2} = -\left(1 - \frac{2M}{r}\right)dt^{2} + \left(1 - \frac{2M}{r}\right)^{-1}dr^{2} + r^{2}d\theta^{2} + r^{2}\sin^{2}\theta d\phi^{2}$$
 (2.2)

$$\rho = \rho_0 + \epsilon \rho_1 \qquad p = p_0 + \epsilon p_1 \qquad \psi = \psi_0 + \epsilon \psi_1 . \tag{2.3}$$

Single line equations with text

$$\lambda_B \sim 0.5 \,\mathrm{kpc} \left(\frac{10^{-22} \,\mathrm{eV}}{m}\right) \left(\frac{250 \,\mathrm{km/s}}{v}\right) \,. \tag{2.4}$$

Single line equations with box

$$T_{\text{Scalar}}^{\mu\nu} = (g^{\mu\alpha}g^{\nu\beta} + g^{\mu\beta}g^{\nu\alpha} - g^{\mu\nu}g^{\alpha\beta})\partial_{\alpha}\Psi\partial_{\beta}\Psi - g^{\mu\nu}\mu^{2}\Psi^{2}$$
(2.5)

$$\boxed{\omega < m\Omega_H} \tag{2.6}$$

Multiline equations

$$a = J/M$$

$$\rho = r^2 + a^2 \cos^2 \theta$$

$$\Delta = r^2 - 2Mr + a^2$$
(2.7)

$$\left[\frac{(r^2+a^2)}{\Delta} - a^2 \sin^2 \theta\right] \frac{\partial^2 \Psi}{\partial t^2} + \frac{4Mar}{\Delta} \frac{\partial^2 \Psi}{\partial t \partial \varphi} + \left[\frac{a^2}{\Delta} - \frac{1}{\sin^2 \theta}\right] \frac{\partial^2 \Psi}{\partial \varphi^2} + \\
- \frac{\partial}{\partial r} \left(\Delta \frac{\partial \Psi}{\partial r}\right) - \frac{1}{\sin \theta} \frac{\partial}{\partial t} \left(\sin \theta \frac{\partial \Psi}{\partial \theta}\right) = 0 .$$
(2.8)

$$\sum_{m} \mathcal{A}_{+}^{m} \left[\phi_{m}^{+} - i\tilde{Z}_{0} \left(\phi_{m}^{+} \right)' \right] + \mathcal{A}_{-}^{m} \left[\phi_{m}^{-} - i\tilde{Z}_{0} \left(\phi_{m}^{-} \right)' \right] =$$

$$= \sum_{m} \epsilon \left(\frac{i\tilde{Z}}{2} \right) \left[\mathcal{A}_{+}^{m} \left(\phi_{m}^{+} \right)' + \mathcal{A}_{+}^{m+2} \left(\phi_{m+2}^{+} \right)' + \mathcal{A}_{+}^{m-2} \left(\phi_{m-2}^{+} \right)' \right] +$$

$$+ \sum_{m} \epsilon \left(\frac{i\tilde{Z}}{2} \right) \left[\mathcal{A}_{-}^{m} \left(\phi_{m}^{-} \right)' + \mathcal{A}_{-}^{m+2} \left(\phi_{m+2}^{-} \right)' + \mathcal{A}_{-}^{m-2} \left(\phi_{m-2}^{-} \right)' \right] , \tag{2.9}$$

Matrix Equations

$$\begin{bmatrix} \ddots & \beta_{+}^{4} & & & & & \\ \beta_{+}^{6} & \Lambda_{+}^{4} & \beta_{+}^{2} & & & & \\ \beta_{+}^{4} & \Lambda_{+}^{2} & \beta_{+}^{0} & & & & \\ & \beta_{+}^{2} & \Lambda_{+}^{0} & \beta_{+}^{2} & & & \\ & & \beta_{+}^{0} & \Lambda_{+}^{2} & \beta_{+}^{4} & & \\ & & & \beta_{+}^{2} & \Lambda_{+}^{4} & \beta_{+}^{6} \\ & & & & \beta_{+}^{4} & \ddots \end{bmatrix} \begin{bmatrix} \vdots \\ \lambda_{-4}^{4} \\ \lambda_{+}^{2} \\ \lambda_{+}^{2} \\ \lambda_{+}^{2} \\ \vdots \end{bmatrix} = \begin{bmatrix} \vdots \\ 0 \\ -\beta_{-}^{0} \\ -\Lambda_{-}^{0} \\ -\beta_{-}^{0} \\ 0 \\ \vdots \end{bmatrix}$$
(2.10)

Conditional equation

$$\alpha(t, \mathbf{r}) = \begin{cases} \alpha_0 & \text{if} & (\mathbf{r} - \mathbf{R}_{\text{orbit}})^2 < R_a^2 \\ \alpha_0 & \text{if} & (\mathbf{r} + \mathbf{R}_{\text{orbit}})^2 < R_a^2 \\ 0 & \text{otherwise} \end{cases}$$
 (2.11)

2.2 Tables

Table 2.1: Example table number 1

ID	А	r_0	σ	ω	m
S1	3.5	40.0	4.0	1.28	0
S2	3.5	15.0	2.0	0.1	2

Table 2.2: Example table number 2

k	$J_0(x)$	$J_1(x)$	$J_2(x)$	$J_3(x)$	$J_4(x)$	$J_5(x)$
1	2.4048	3.8317	5.1356	6.3802	7.5883	8.7715
2	5.5201	7.0156	8.4172	9.7610	11.0647	12.3386
3	8.6537	10.1735	11.6198	13.0152	14.3725	15.7002
4	11.7915	13.3237	14.7960	16.2235	17.6160	18.9801

2.3 Figures

Generating figures in a consistent manner is usually challenge. Especially when the work to be presented is made by a team of several elements. The graphics presented in this template are generated with the <code>Jlop</code> template in python.

Single Figure

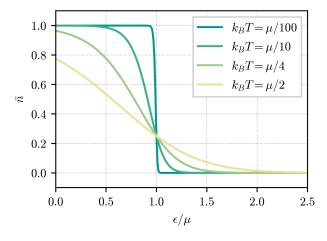


Figure 2.1: An example figure

Side By Side

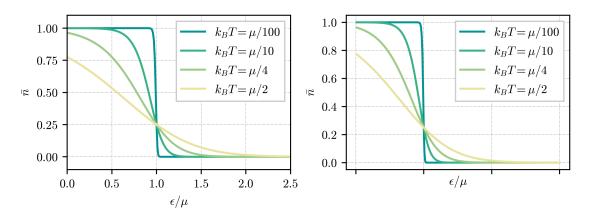


Figure 2.2: An example figure with two elements. The two plots where generated as a single image with the correct document width. If this is not possible, follow the procedure done to generate figure 2.3.

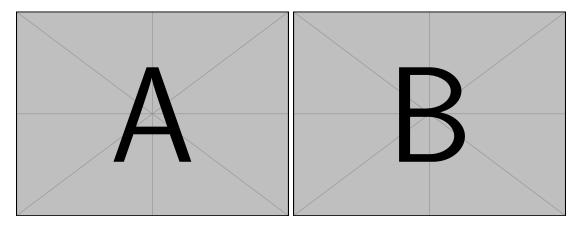


Figure 2.3: An example figure with two elements. It is usually better to make a single image with both plots as to input a single file. When that is not possible, one should resort to this method

2.4 Putting it al together

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$$\lambda_B \sim 0.5 \,\mathrm{kpc} \left(\frac{10^{-22} \,\mathrm{eV}}{m} \right) \left(\frac{250 \,\mathrm{km/s}}{v} \right) \,.$$
 (2.12)

Suspendisse vitae elit. Aliquam arcu neque, ornare in, ullamcorper quis, commodo eu, libero. Fusce sagittis erat at erat tristique mollis. Maecenas sapien libero, molestie et, lobortis in, sodales eget, dui. Morbi ultrices rutrum lorem. Nam elementum ullamcorper leo. Morbi dui. Aliquam sagittis. Nunc placerat. Pellentesque tristique sodales est. Maecenas imperdiet lacinia velit. Cras non urna. Morbi eros pede, suscipit ac, varius vel, egestas non, eros. Praesent malesuada, diam id pretium elementum, eros sem dictum tortor, vel consectetuer odio sem sed wisi.

Table 2.3: Example table number 1

ID	А	r_0	σ	ω	m
S1	3.5	40.0	4.0	1.28	0
S2	3.5	15.0	2.0	0.1	2

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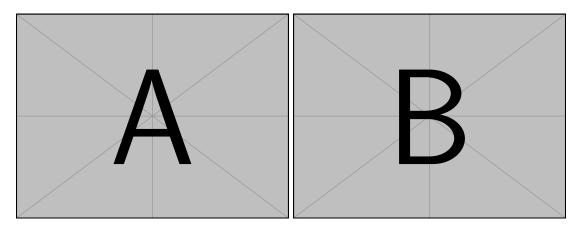


Figure 2.4: An example figure with two elements. It is usually better to make a single image with both plots as to input a single file. When that is not possible, one should resort to this method

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Bibliography

[1] A. Einstein, Annalen Phys. **17** (1905), 10.1002/andp.200590006.

Appendix A

Appendix Example

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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 consectetuer.

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