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Universidade de São Paulo

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Instituto de Astronomia, Geofísica e Ciências

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Atmosféricas

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Departamento de Astronomia

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Seu nome

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Template não oficial para

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dissertações e teses do IAG-USP

8

São Paulo

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2024

Template não oficial para dissertações e teses do IAG-USP**Versão original**

Dissertação/Tese apresentada ao Instituto de Astronomia, Geofísica e Ciências Atmosféricas da Universidade de São Paulo como requisito parcial para a obtenção do título de Mestre/-Doutor em Ciências.

Área de concentração: Astronomia

Orientador: Prof. Dr. Nome do Orientador.

18 Agradecimientos

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19 Agradedimentos

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Resumo

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Resumo em português.

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Palavras-chave: palavras-chave em português

Abastract in english.

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Keywords: keywords in english

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Lista de Acrônimos

77 **photo- z** photometric redshift

78 **S-PLUS** Southern Photometric Local Universe Survey

79 **spec- z** spectroscopic redshift

1 Introdução

The goal of this document is to provide an unofficial dissertation/thesis template for IAG/USP.

1.1 | General tips for when writing a dissertation/thesis

When writing the text, you should be aware of the IAG/USP norms¹. There are some obligatory chapters that should be in the text, the list is shown in “XI – PROCEDIMENTOS PARA DEPÓSITO DA DISSERTAÇÃO/TESE”.

In order to make the deposit, you should have:

- For PhD: a printed copy of the text, the forms containing the committee suggestion, a letter from the supervisor saying that you are fit for the defense, and proof of one published paper, where you are the first or second co-author, in a refereed international journal. You also need to make a deposit in Janus.
- For master’s:

IAG has a partnership with the IME’s print shop. To print your dissertation/thesis with them you should send an email to ccpastroiag.usp.br with copy to cida.coelho@iag.usp.br asking for permission, with the PDF of the text attached. If approved, the text will be sent to the print shop and you will be notified when it is ready (within 1 or 2 days).

The forms for the committee and the supervisor manifestation can be found at IAG’s website, in the “Forms” page: <https://www.iag.usp.br/pos-graduacao/formularios>. I recommend that you start thinking about the names that should be in your defense two weeks before making the deposit, and sending each member an email one week before, asking if they accept that their names be suggested.

¹<https://leginf.usp.br/?resolucao=resolucao-copgr-no-7882-de-25-de-novembro-de-2019>

1.2 | Features of this template

This template is based on the [WebLatex²](#) template, created to replace Overleaf with Github, with some modifications. See the link for further details and the advantages of this approach.

We also included the GitDoc extension, which automatically makes commit+push to a repository. To use it, you should enable the extension using `ctrl+shift+p > “GitDoc Enable”`

1.2.1 | Acronyms

The acronyms in this model are handled by the `acro` package, where you need to defined the acronyms beforehand, in the “Sections/0.2-list_of_acronyms.tex”, using the format:

```
1 \DeclareAcronym{acronym}{
2   short = short name,
3   long  = long name,
4   cite  = citation %optional
5 }
```

Using this package, the first reference to an acronym is written normally, with the reference if you defined the acronym with one, using the “long” name: Southern Photometric Local Universe Survey (S-PLUS, [Mendes de Oliveira et al., 2019](#)). Whenever you make another reference to this acronym, it will use the “short” name: S-PLUS.

You can also define acronyms using math-mode: photometric redshift (photo- z). If you use the acronym only once, it will be printed using the long form only, without displaying the short form, in this case, use can use the `\ac{acro}` command followed by `\acuse{acro}`: spectroscopic redshift (spec- z).

There are some variations on how the acronyms can be printed, such as:

- Plural: `\acp{photoz}` → photo- zs
- Force long name: `\acl{des}` → Dark Energy Survey ([Sánchez, 2010](#))
- Force short name: `\acs{vhs}` → VHS ([McMahon et al., 2013](#))
- Capital first letter: `\Ac{photoz}` → Photo- z

²<https://github.com/sanjib-sen/WebLaTeX>

135 1.2.2 | Citations

136 In this template, the citations are handled by the `natbib` package, with is de-
137 fined by the commands in the “Sections/6-bibliography.tex” file. There, the list of used
138 references are imported from the “Sections/reference_list.bib” file.

139 This package supports different types of citations, all of them explained here:
140 <https://gking.harvard.edu/files/natnotes2.pdf>

141 1.2.3 | Examples of tables, figures, listings...

142 1.2.4 | Making figures with Matplotlib

143 2 Metodologia

3 Resultados

4 Conclusões

5 Perspectivas futuras

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