

UNIVERSITÉ CATHOLIQUE DE LOUVAIN

Etude d'optimisation de la fabrication additive de l'aluminium AlSi10Mg

Mémoire présenté par

David DISPAS *et* Arthur BOUILLOT

en vue de l'obtention des grades respectifs de Master en

Ingénieur civil mécanicien *et* Ingénieur civil en chimie
et science des matériaux

à l'Ecole Polytechnique de Louvain (EPL)

Promoteur : Aude SIMAR

Lecteurs : Stephen HAWKING, Elon MUSK

Année académique 2017-2018

« *Citation stylée.* »

Mec cool

Remerciements

Gros betch à mes poules Aude Simar et Camille Van Der Rest et aux potos du labo

Table des matières

1	Introduction	1
2	Etat de l'art	3
2.1	Comment référencer?	3
3	Résultats	5
4	Discussion	7
5	Conclusion	9
	Bibliographie	11

Table des figures

4.1 An Electron	7
---------------------------	---

Liste des tableaux

3.1 The effects of treatments X and Y on the four groups studied.	5
---	---

Liste des abréviations et symboles

a	distance	m
P	power	W (J s ⁻¹)
ω	angular frequency	rad

Nous dédions ce travail à nos familles et amis

Chapitre 1

Introduction

This is, with the concluding chapter, a significant portion of memory. This should especially present the context and objectives of the work. Generally, the memory structure (content of chapters) is briefly exposed

Chapitre 2

Etat de l'art

Recherches biblio....

2.1 Comment référencer ?

The biblatex package is used to format the bibliography and inserts references such as this one (HAWTHORN, WEBER et SCHOLTEN, 2001). The options used in the main.tex file mean that the in-text citations of references are formatted with the author(s) listed with the date of the publication. Multiple references are separated by semicolons (e.g. (WIEMAN et HOLLBERG, 1991 ; HAWTHORN, WEBER et SCHOLTEN, 2001)) and references with more than three authors only show the first author with *et al.* indicating there are more authors (e.g. (ARNOLD et al., 1998)). This is done automatically for you.

Scientific references should come *before* the punctuation mark if there is one (such as a comma or period). The same goes for footnotes¹. You can change this but the most important thing is to keep the convention consistent throughout the thesis. Footnotes themselves should be full, descriptive sentences (beginning with a capital letter and ending with a full stop). The APA6 states : « Footnote numbers should be superscripted, [...], following any punctuation mark except a dash. » The Chicago manual of style states : « A note number should be placed at the end of a sentence or clause. The number follows any punctuation mark except the dash, which it precedes. It follows a closing parenthesis. »

The bibliography is typeset with references listed in alphabetical order by the first author's last name. This is similar to the APA referencing style. To see how L^AT_EX typesets the bibliography, have a look at the very end of this document (or just click on the reference number links in in-text citations).

1. Such as this footnote, here down at the bottom of the page.

Chapitre 3

Résultats

Analyses statistiques etc...

TABLE 3.1 – The effects of treatments X and Y on the four groups studied.

Groups	Treatment X	Treatment Y
1	0.2	0.8
2	0.17	0.7
3	0.24	0.75
4	0.68	0.3

Chapitre 4

Discussion

Que conclure d'après les résultats ?



FIGURE 4.1 – An electron (artist's impression).

Chapitre 5

Conclusion

They incorporate in a synthetic way the main results and compare them with the initial objectives. Generally, this final chapter also presents prospects for the continuation of the work undertaken.

Bibliographie

- ARNOLD, A. S. et al. (mar. 1998). « A Simple Extended-Cavity Diode Laser ». In : *Review of Scientific Instruments* 69.3, p. 1236-1239. URL : <http://link.aip.org/link/?RSI/69/1236/1>.
- HAWTHORN, C. J., K. P. WEBER et R. E. SCHOLTEN (déc. 2001). « Littrow Configuration Tunable External Cavity Diode Laser with Fixed Direction Output Beam ». In : *Review of Scientific Instruments* 72.12, p. 4477-4479. URL : <http://link.aip.org/link/?RSI/72/4477/1>.
- WIEMAN, Carl E. et Leo HOLLBERG (jan. 1991). « Using Diode Lasers for Atomic Physics ». In : *Review of Scientific Instruments* 62.1, p. 1-20. URL : <http://link.aip.org/link/?RSI/62/1/1>.