

國立中央大學

物理研究所 碩士論文

中央大學論文樣板 (英文) NCU Thesis Template(English)

研究生：Your Name.

指導教授：Your committee 博士

共同指導：Committee member 博士

中華民國一百零七年六月

Todo list

■ “Todo List” will hide when set `\setboolean{publish}{true}` in `config.tex`. . . . iii

“Todo List” will hide when set `\setboolean{publish}{true}` in `config.tex`.



National Central University Library

Letter of Authorization for Electronic Theses and Dissertations

(The latest version since Sep. 2012)

This license authorizes my complete electronic thesis (**not in paper format, see footnote 1**) be archived and read in the “National Central University Library Electronic Theses & Dissertations System”.

- () Agree (available immediately)
() Agree (available in ____/____/____ (yyyy/mm/dd)) , because_____
() Disagree, because:_____

and be archived and read in NDLTD(National Digital Library of Theses and Dissertations in Taiwan)

- () Agree (available immediately)
() Agree (available in ____/____/____ (yyyy/mm/dd)) , because_____
() Disagree, because:_____

I undertake to submit my thesis, to National Central University Library and NDLTD(National Digital Library of Theses and Dissertations in Taiwan), non-exclusively and voluntarily. Based on the concept of sharing sources and mutually benefitted cooperation and in aims to repay the society and for the academic usage, I hereby grant a non-exclusive, for the full term of copy right protection, license to National Central University Library and NDLTD(National Digital Library of Theses and Dissertations in Taiwan), (a) to reproduce, publish, archive, preserve, conserve, communicate to the public by telecommunication or on the Internetf and distribute my thesis, in microform, paper, electronic and/or any other formats, regardless of place, time, and frequency; (b) to authorize, sub-license, sub-contract or procure any of the acts mentioned in paragraph (a). And grant the reader the right to read, download and print out non-profitably.

Signature of the Author:_____

Student Number:_____

Thesis Title:_____

Supervisor: _____

Faculty, Department, School:

_____ ☐ PH. D ☐ Master

Footnote :

1. The license is limited to only electronic files. In terms of Regulation of Copyright No 15, article 3, theses in paper can be published by the library. If you have patent or submitting concerns and do not want to publish your theses in paper, please fill out the Proclamation form.
2. This form requires the author's own signature, and it should be attached to a page after the paper theses' cover. (type-up signature is allowed for full electronic theses)
3. Readers should observe the Regulation of copyright while searching, reading, downloading and printing theses online non-profitably.

國立中央大學博碩士紙本論文延後公開/下架申請書

本論文為本人（即著作權人）_____於本校

_____系所_____學年度第_____學期

取得☐碩士☐博士學位之論文

論文題目：_____

指導教授：_____

因以下原因（請勾選，並填寫相關資料）

☐ 本人以上列論文向經濟部智慧財產局申請專利

（專利申請案號：_____）

☐ 本人準備以上列論文申請專利

☐ 其他（請敘明原因及公開日期）

原因：_____

請於_____年_____月_____日後再將上列論文公開閱覽

【依教育部 97 年 7 月 23 日台高通字第 0970140061 號函文），若延後公開需訂定合理期限（不超過 5 年）】

研 究 生：_____（親筆簽名）

指導老師：_____（親筆簽名）

說明：有論文延後公開原因及需求者，請於提送論文時，檢附本申請書（裝訂

於論文電子授權之次頁）

中 華 民 國 _____ 年 _____ 月 _____ 日

National Central University

Advisor's Recommendation for Graduate Students

This thesis is by _____ (Author) of the graduate
program in _____, entitled: _____
_____ ,

which is written under my supervision, and I agree to propose
it for examination.

Advisor _____

_____ (YYYY/MM/DD)

National Central University

Verification Letter from the Oral Examination Committee

for Graduate Students

This thesis is by _____ (Author) of the graduate
program in _____, entitled: _____

who is qualified for master degree through the verification of
the committee.

Convener of the degree examination committee

Members

Date: _____
(YYYY/MM/DD)

中央大學論文樣板 (英文)

摘要

在此寫上你的中文摘要。

關鍵字： 關鍵字, 論文, 樣板, 讓我畢業

NCU Thesis Template(English)

Abstract

Write your English abstract here.

Keywords: Keyword, Thesis, Template, Graduate me

ABSTRACT

Acknowledgement

Thanks NCU, and sppmg's \LaTeX template[1].



ACKNOWLEDGEMENT

Contents

	page
摘要	xiii
Abstract	xv
Acknowledgement	xvii
Contents	xix
Glossary	xxv
1 Introduction	1
2 Method	3
3 Result	5
4 Conclusion	7
5 Chapter name(demo)	9
5.1 Section name	9
5.1.1 Subsection name	9
6 Test demo	11
7 figure	13
7.1 Insert single figure(by sppmg's tool).....	13
7.2 Insert figures	13
8 Table	15
8.1 Simple table	15
8.2 Auto break line table.....	15
Bibliography	17
A List of device	19

CONTENTS

B Solutions	21
B.1 The solution	21
C Code	23
C.1 C.....	23
C.2 Matlab.....	23
C.3 IDL	23
D Letters bot	25

List of Figures

	page
7.1 short caption	13
7.2 caption, use “(b)” get ID of subfigure(this ID is Debian) in caption	14

LIST OF FIGURES

List of Tables

	page
8.1 Solution	15
A.1 List of device	19
B.1 The solution	21

Glossary

Use table for symbol list. You can also use package “nomencl” (simple) or “glossaries” (powerful). see packages document or my tutorial (but it’s Chinese).

Glossary

VIM	:	The best guy’s editor
Emacs	:	The God’s editor
CTAN	:	Comprehensive TeX Archive Network, ctan.org

Chapter 1

Introduction

(You can copy “chapter_template.tex” or “chapter_template_demo.tex” to create new sub-file(chapter).)

Write your Introduction here. eg,
I don't want my chaste thesis impinge by M\$. But \LaTeX is little hard.

Chapter 2

Method

So I use sppmg's \LaTeX template.

Chapter 3

Result

I had a nice thesis.

Chapter 4

Conclusion

I am free, I am not own by M\$.

Chapter 5

Chapter name(demo)

Content of chapter
Content Content Content.

5.1 Section name

Content of section
Content Content Content

5.1.1 Subsection name

Content of subsection
Content Content Content

5.1.1.1 Subsubsection name

Content of subsubsection
Content Content Content

5.1.1.1.1 Paragraph name Content of paragraph
Content Content Content

Subparagraph name Content of subparagraph
Content Content Content

Chapter 6

Test demo

First line. (next line in \LaTeX)still first line.
Second line.

Chapter 7

figure

7.1 Insert single figure(by sppmg's tool)



Figure 7.1: caption

7.2 Insert figures

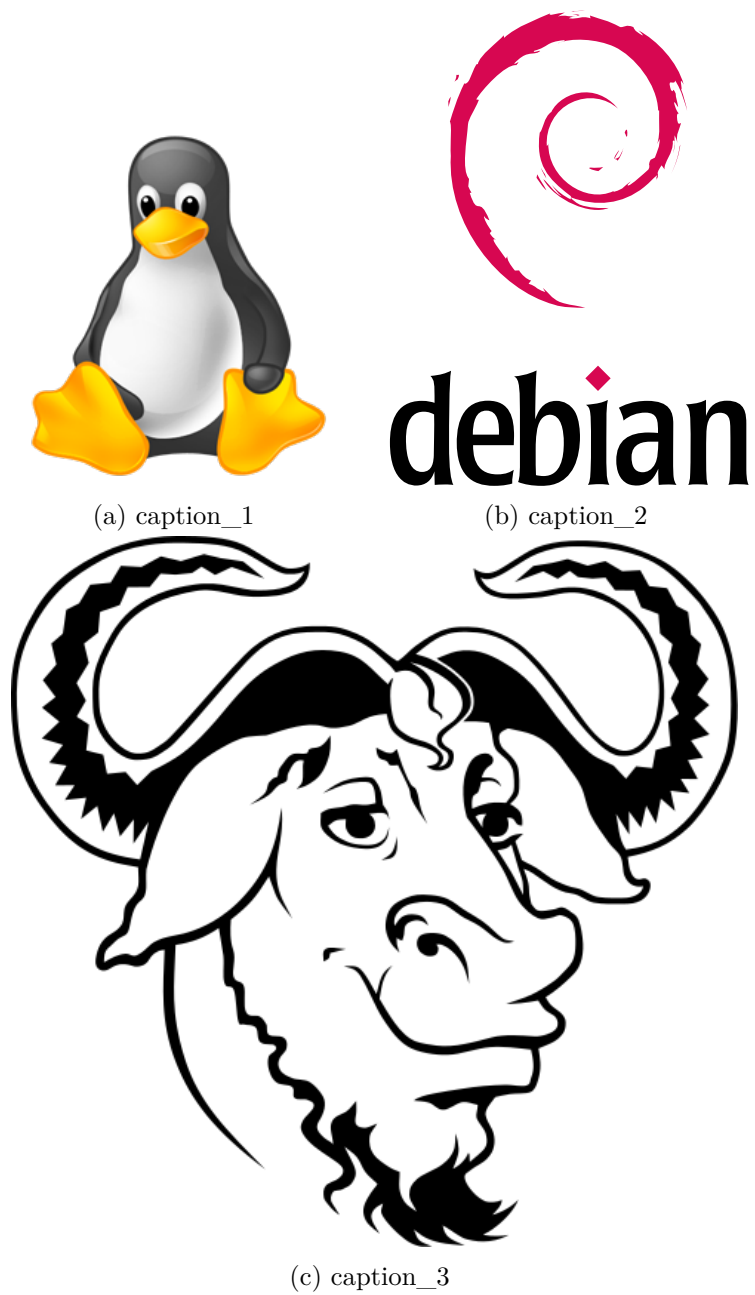


Figure 7.2: caption, use “(b)” get ID of subfigure(this ID is Debian) in caption

Chapter 8

Table

8.1 Simple table

Table 8.1: Solution

Component	Concentration(mM)
CaCl ₂	118.0

8.2 Auto break line table

short	short short
long	long long long long long long long long long

Bibliography

- [1] (). Sppmg/TW_thesis_template, GitHub, [Online]. Available: https://github.com/sppmg/TW_Thesis_Template (visited on 10/23/2016).

BIBLIOGRAPHY

Appendix A

List of device

Table A.1: List of device

device	Model	Description
Linux	Debian 9	Best of best of best OS
Windows	10	Best of Best tool to prevent the aging of brain.

APPENDIX A. LIST OF DEVICE

Appendix B

Solutions

B.1 The solution

Table B.1: The solution

Component	Concentration(mM)
NaCl	1.0
CaCl ₂	2.0
NaCl	1.0
CaCl ₂	2.0

Appendix C

Code

C.1 C

Code C.1: hello_world_c.c

```
1 #include <stdio.h>
2 main()
3 {
4     printf("hello, world\n");
5 }
```

C.2 Matlab

Code C.2: hello_world_matlab.m

```
1 fprintf('hello, world\n');
```

C.3 IDL

Code C.3: hello_world_idl.pro

```
1 print,"hello, world"
2
3 end
```


Appendix D

Letters bot

Here try to insert some information automatically. If you need change font size or position, modify appendix_letter_NCU.tex and compile this single tex file.

In appendix_letter_NCU.tex, you will see \placetextbox for every string.

```
1 \placetextbox{x(mm)}{y(mm)}
```

The unit is mm , origin at bottom left. I recommend add “colorgrid” option to “\documentclass” for positioning. e.g. In this tex file (appendix_letter_NCU.tex):

```
1 \documentclass[class=NCU_thesis, crop=false, colorgrid]{standalone}
```

“colorgrid” will display a grid with mm unit.

NCU 中文文件位於 NCU_zh



National Central University Library

Letter of Authorization for Electronic Theses and Dissertations

(The latest version since Sep. 2012)

This license authorizes my complete electronic thesis (**not in paper format, see footnote 1**) be archived and read in the “National Central University Library Electronic Theses & Dissertations System”.

- () Agree (available immediately)
() Agree (available in ____/____/____ (yyyy/mm/dd)) , because_____
() Disagree, because:_____

and be archived and read in NDLTD(National Digital Library of Theses and Dissertations in Taiwan)

- () Agree (available immediately)
() Agree (available in ____/____/____ (yyyy/mm/dd)) , because_____
() Disagree, because:_____

I undertake to submit my thesis, to National Central University Library and NDLTD(National Digital Library of Theses and Dissertations in Taiwan), non-exclusively and voluntarily. Based on the concept of sharing sources and mutually benefitted cooperation and in aims to repay the society and for the academic usage, I hereby grant a non-exclusive, for the full term of copy right protection, license to National Central University Library and NDLTD(National Digital Library of Theses and Dissertations in Taiwan), (a) to reproduce, publish, archive, preserve, conserve, communicate to the public by telecommunication or on the Internetf and distribute my thesis, in microform, paper, electronic and/or any other formats, regardless of place, time, and frequency; (b) to authorize, sub-license, sub-contract or procure any of the acts mentioned in paragraph (a). And grant the reader the right to read, download and print out non-profitably.

Signature of the Author:_____

Student Number:_____

Thesis Title:_____ NCU Thesis Template(English)

Supervisor:_____ Your committee

Faculty, Department, School:

物理

☐ PH. D ☐ Master

Footnote :

1. The license is limited to only electronic files. In terms of Regulation of Copyright No 15, article 3, theses in paper can be published by the library. If you have patent or submitting concerns and do not want to publish your theses in paper, please fill out the Proclamation form.
2. This form requires the author's own signature, and it should be attached to a page after the paper theses' cover. (type-up signature is allowed for full electronic theses)
3. Readers should observe the Regulation of copyright while searching, reading, downloading and printing theses online non-profitably.

國立中央大學博碩士紙本論文延後公開/下架申請書

本論文為本人（即著作權人）_____Your Name._____於本校

_____物理_____系所_____學年度第_____學期

取得☐碩士☐博士學位之論文

論文題目：_____NCU Thesis Template(English)

指導教授：_____Your committee

因以下原因（請勾選，並填寫相關資料）

☐ 本人以上列論文向經濟部智慧財產局申請專利

（專利申請案號：_____）

☐ 本人準備以上列論文申請專利

☐ 其他（請敘明原因及公開日期）

原因：_____

請於_____年_____月_____日後再將上列論文公開閱覽

【依教育部 97 年 7 月 23 日台高通字第 0970140061 號函文），若延後公開需訂定合理期限（不超過 5 年）】

研 究 生：_____（親筆簽名）

指導老師：_____（親筆簽名）

說明：有論文延後公開原因及需求者，請於提送論文時，檢附本申請書（裝訂

於論文電子授權之次頁）

中 華 民 國 _____ 年 _____ 月 _____ 日

National Central University

Advisor's Recommendation for Graduate Students

This thesis is by _____ Your Name. _____ (Author) of the graduate
program in _____ 物理 _____, entitled: _____

NCU Thesis Template(English) _____,
which is written under my supervision, and I agree to propose
it for examination.

Advisor _____

_____ (YYYY/MM/DD)

National Central University

Verification Letter from the Oral Examination Committee

for Graduate Students

This thesis is by _____ Your Name. _____ (Author) of the graduate
program in _____ 物理 _____, entitled: _____

NCU Thesis Template(English) _____,

who is qualified for master degree through the verification of
the committee.

Convener of the degree examination committee

Members

Date: _____
(YYYY/MM/DD)