

# Report workbook

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## Glossary

Glossary item 1 Glossary item 1 1

Glossary item 2 Glossary item 2 1

### Declaration

I hereby declare that the work presented in this thesis is entirely my own and that I did not use any other sources and references than the listed ones. I have marked all direct or indirect statements from other sources contained therein as quotations. Neither this work nor significant parts of it were part of another examination procedure. I have not published this work in whole or in part before. The electronic copy is consistent with all submitted copies.

Zaragoza (Aragón), January 2022

## Abstract

This is justified text.

# 1

## Introduction

This is an introduction. this is bold this is italic text

This a reference [1].

This is Glossary item 1 and this is Glossary item 2.

Citation here. Footnote url here<sup>1</sup>.

Another footnote simple<sup>2</sup>.

### **Bibliography**

[1] Yi Li, Tomas Polakovic, Yong-Lei Wang, Jing Xu, Sergi Lendinez, Zhizhi Zhang, Junjia Ding, Trupti Khaire, Hilal Saglam, Ralu Divan, John Pearson, Wai-Kwong Kwok, Zhili Xiao, Valentine Novosad, Axel Hoffmann, and Wei Zhang. Strong coupling between magnons and microwave photons in on-chip ferromagnet-superconductor thin-film devices. *Physical review letters*, 123:107701, September 2019.

<sup>&</sup>lt;sup>1</sup>http://google.com

<sup>&</sup>lt;sup>2</sup>this is a footnote

## Another chapter

This is a chapter [1].

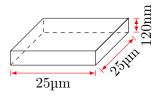


Figure 2.1: Prism drawing

Second page.

Footnote url here with header<sup>3</sup>.

$$f = 28 \cdot \sqrt{(B_{DC} + (N_y - N_x) \cdot 0.86 \cdot 10^6 \cdot 4\pi \cdot 10^{-7}) \cdot (B_{DC} + (N_z - N_x) \cdot 0.86 \cdot 10^6) \cdot 4\pi \cdot 10^{-7}}$$

Equation 2.1: Theoretical Kittel equation expanded for a Permalloy thin-film for X-axe

$$f = 28 \cdot \sqrt{(B_{DC} + (N_y - N_x) \cdot 0.86 \cdot 10^6 \cdot 4\pi \cdot 10^{-7}) \cdot (B_{DC} + (N_z - N_x) \cdot 0.86 \cdot 10^6) \cdot 4\pi \cdot 10^{-7}}$$
 This line is a comment in boxed formula

Equation 2.2: Theoretical Kittel equation expanded for a Permalloy thin-film for X-axe

$$f = 28 \cdot \sqrt{(B_{DC} + (N_y - N_x) \cdot 0.86 \cdot 10^6 \cdot 4\pi \cdot 10^{-7}) \cdot (B_{DC} + (N_z - N_x) \cdot 0.86 \cdot 10^6) \cdot 4\pi \cdot 10^{-7}}$$

Equation 2.3: Theoretical Kittel equation expanded for a Permalloy thin-film for X-axe

#### 2.1 Section here

This is a new section.

Item	Item
size1	size2
(nm)	(nm)
8	600
10	400
12	300

Table 2.1: Sample table

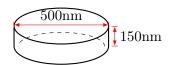


Figure 2.2: Disc sample figure

Item	Item	Item	Item
one	two	three	four
(m)	(m)	(m)	(m)
8	$15000 \times 800 \times 60$	7.5413550	0
10	$15000 \times 450 \times 60$	9.4630770	0
12	$15000\times350\times60$	10.368898	0

**Table 2.2:** Table with complex cells

<sup>&</sup>lt;sup>3</sup>http://google.com

Report workbook 2. Another chapter

Item size	Object	Object width	Current	Gap @ 500nm	Gap @ 1μm	
$(\mu \mathrm{m})$	(m)	(nm)	(mA)	(nT)	(nT)	
	259.07	300	$1.61000 \times 10^4$	51.66902	29.08373	
$15 \times 0.800 \times 0.06$		400		50.82305	28.93193	
10 // 0.000 // 0.00		600		48.54992	28.49336	
		300		76.05934	42.81274	
$15 \times 0.450 \times 0.06$	224.42	224.42	400	$2.37000 \times 10^4$	74.81401	42.58931
			600		71.46784	41.94378
	229.52		300		84.72435	47.69013
$15 \times 0.350 \times 0.06$		400	$2.64000 \times 10^4$	83.33715	47.44119	
		600		79.61009	46.72226	

Table 2.3: Complex table 2

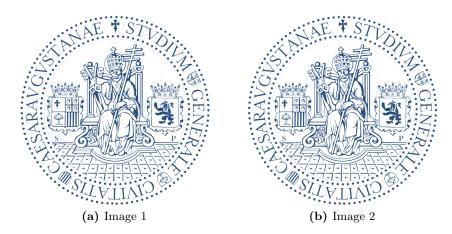
Important note: This is a nice ToDO note.



Figure 2.3: Set of two images



Figure 2.4: This is a single image



**Figure 2.5:** Set of two images, this reference [2] will show up in this caption but it will hide in List Of Figures

### **Bibliography**

- [1] Niobium Superconducting Nanowire, Anthony J. Annunziata, Daniel F. Santavicca, Joel D. Chudow, Luigi Frunzio, Michael J. Rooks, Aviad Frydman, and Daniel E. Prober. Single-photon detectors. *Physical review letters*, 2006.
- $^{[2]}$  Francesco Giazotto and María José Martínez-Pérez. The josephson heat interferometer. Nature,  $492(7429){:}401{-}405,\,\mathrm{Dec}\ 2012.$

## Epilogue

This ia an epilogue.

### List of Publications

<sup>[1]</sup> Fernando Luis, Pablo J. Alonso, Olivier Roubeau, Verónica Velasco, David Zueco, David Aguila, Leoní A. Barrios, and Guillem Aromí. A dissymmetric [gd<sub>2</sub>] coordination molecular dimer hosting six addressable spin qubits, 2020.

<sup>[2]</sup> Salvatore Savasta, Omar Di Stefano, Alessio Settineri, David Zueco, Stephen Hughes, and Franco Nori. Gauge principle and gauge invariance in quantum two-level systems, 2020.