Quantum physics grew up widely in the second half of the 20th century, many people contributed to pushing forward on many quantum technologies. I was highly unaware of the new achievements that quantum technologies can give us in the forthcoming years and this is a great surprise to me because I can now learn from some of the cutting-edge that are performing on the quantum scene.

# Report workbook

John Doe









# Report workbook

John Doe

John Doe University September 2021

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## Glossary

Glossary item 1 Glossary item 1 1

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#### 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), September 2021

#### Abstract

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# Introduction

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

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

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

<sup>&</sup>lt;sup>1</sup>http://google.com <sup>2</sup>this is a footnote

# Another chapter

This is a chapter.

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

#### 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

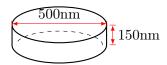


Figure 2.1: Disc sample figure

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	$15000 \times 350 \times 60$	10.368898	0					

Table 2.2: Table with complex cells

 $<sup>^3</sup>$ http://google.com

2. Another chapter

Item size	Object	Object width	Current	Gap @ 500nm	Gap @ 1μm
$(\mu \mathrm{m})$	(m)	(nm)	(mA)	(nT)	(nT)
		300		51.66902	29.08373
$15 \times 0.800 \times 0.06$	259.07	400	$1.61000 \times 10^4$	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	400	$2.37000 \times 10^4$	74.81401	42.58931
		600		71.46784	41.94378
		300		84.72435	47.69013
$15 \times 0.350 \times 0.06$	229.52	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.

# Epilogue

This ia an epilogue.

#### **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.

#### 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.