



Departamento de  
Física de la  
Materia Condensada  
**Universidad** Zaragoza

# Report workbook

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June 2021

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# List of Equations

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# Glossary

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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.

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Zaragoza (Aragón), June 2021

# Abstract

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# 1

## Introduction

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

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>

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<sup>1</sup><http://google.com>

<sup>2</sup>this is a footnote

## Another chapter

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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-axis

## 2.1 Section here

This is a new section.

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

# Epilogue

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This ia an epilogue.

# Bibliography

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- <sup>[1]</sup> Yi Li, Tomas Polakovic, Yong-Lei Wang, Jing Xu, Sergi Lendinez, Zhizhi Zhang, Junjia Ding, Trupti Khairé, 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

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- <sup>[1]</sup> Fernando Luis, Pablo J. Alonso, Olivier Roubeau, Verónica Velasco, David Zueco, David Aguila, Leoní A. Barrios, and Guillem Aromí. A dissymmetric  $[\text{gd}_2]$  coordination molecular dimer hosting six addressable spin qubits, 2020.
- <sup>[2]</sup> Salvatore Savasta, Omar Di Stefano, Alessio Settinieri, David Zueco, Stephen Hughes, and Franco Nori. Gauge principle and gauge invariance in quantum two-level systems, 2020.