



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

Report workbook

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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), October 2020

Abstract

This is justified text.

dot leaders in bold

1

Introduction

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

This is [Glossary item 1](#) and this is [Glossary item 2](#).

Citation here[\[1\]](#). Footnote url here¹.

Another footnote simple ²

¹<http://google.com>

²this is a footnote

2

Another chapter

This is a chapter.

Second page.

Footnote url here with header³.

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

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

2.1 Subsection here

This is a new subsection.

³<http://google.com>

Bibliography

- [1] Y. Li, T. Polakovic, Y.-L. Wang, J. Xu, S. Lendinez, Z. Zhang, J. Ding, T. Khaire, H. Saglam, R. Divan, J. Pearson, W.-K. Kwok, Z. Xiao, V. Novosad, A. Hoffmann, and W. Zhang, “Strong coupling between magnons and microwave photons in on-chip ferromagnet-superconductor thin-film devices.”, *Physical review letters*, vol. 123, p. 107701, Sept. 2019.

List of Publications

- [1] F. Luis, P. J. Alonso, O. Roubeau, V. Velasco, D. Zueco, D. Aguilà, L. A. Barrios, and G. Aromí, “A dissymmetric $[gd_2]$ coordination molecular dimer hosting six addressable spin qubits”, 2020.
- [2] S. Savasta, O. D. Stefano, A. Settineri, D. Zueco, S. Hughes, and F. Nori, “Gauge principle and gauge invariance in quantum two-level systems”, 2020.

Epilogue

This ia an epilogue.