VNIVERSITAT DE VALÈNCIA Facultat de Física

Máster en Física Avanzada

Especialidad teórica

Trabajo Fin de Máster

TITLE

Student Name

Advisor Name

Academic Year

TITLE

NAME May 27, 2020

Contents

Abstract

Short summary of the Thesis. Recommendations from the University of Valencia:

To standardise the level and facilitate the work of the committees, the Academic Coordinating Committee suggests the following recommendations:

(a) The content of the Master's Degree Thesis must allow the student to complete it only in the second semester.

(b) As examples, and depending on the speciality chosen by the student, a Master's Degree Thesis can consist of:

- **(a) The assimilation and presentation of a review linked to the future topic of the thesis.**
- **(b) The in-depth study of any topic covered in the Master's degree.**
- **(c) The preparation of exploratory exercises on the topic of the thesis.**
- **(d) The carrying out of an experiment/observation, or its preparation and design if the complexity requires it.**

(c) The thesis report should not exceed 50 pages in length.

(d) The report must be written with a font size and a line spacing which facilitates its reading.

(e) For the first page, students must use the template provided by the Academic Coordinating Committee, found on the website of the Master's Degree.

(f) The Academic Coordinating Committee recommends that the presentation of the thesis lasts around 20 minutes, and the debate, no more than 20 minutes.

(g) Students can write and defend teh Master's Thesis and its presentation in Spanish, Valencian or English.

https://www.uv.es/uvweb/master-fisica-avanzada/es/programa-del-master/trabajo-fin-master/instrucciones-plazos-1285885977277.html

Resumen

Resumen en español de la Tesis

1 Introduction and motivation

As I told you, here you should insert your work in a specific area of research, explain the open problems, motivate your work as a study on a particular aspects of the area (solving one of the aforementioned problems, going deeper in some particular sub-area, covering the main literature over something).

2 Literature, 1

The number of Literature Chapters is up to you. Here you must quote ALL of the existing literature. For example, Ref. [1] on the foundation of the Minimal SuperSymmetric Standard Model (MSSM), Ref. [2] on the *naturalness* problem according to 't Hooft, Refs. [3, 4, 5] on the birth of Technicolor, etc.

3 Literature, 2

This is how you write an equation:

$$M_P^2 \sim M_D^{2+n} R^n \,, \tag{1}$$

This is how you quote eq. (1).
This is how you insert a figure.

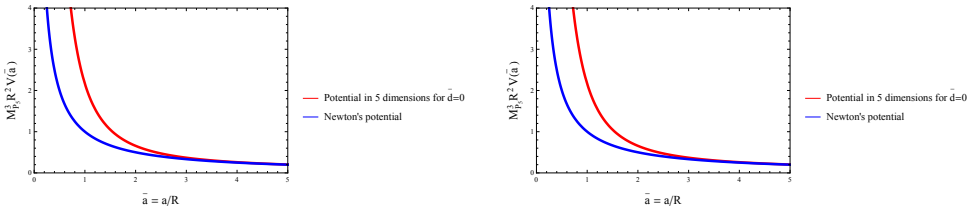

Figure 1: *Comparison of the potential with one extra compactified dimension and newtonian potential. Is the relevant case for experiments, i.e. the case in which both particles are in the same brane,* $d = 0$.

And this is how you quote the Fig. 1.

4 My work, theory and motivation

5 My work, results

6 Conclusions

Acknowledgements

Here you acknowledge help and discussions with people. In a thesis, this section may appear in the first page. You also acknowledge personal relations and your advisor. In an article, you MUST acknowledge all financial help from any grant or institution (extremely important for institutions).

A Appendix A

B Appendix B

References

[1] S. Dimopoulos and H. Georgi, "Softly Broken Supersymmetry and SU(5)," *Nucl.Phys.*, vol. B193, p. 150, 1981.

[2] G. 't Hooft, "Naturalness, chiral symmetry, and spontaneous chiral symmetry breaking," *NATO Sci.Ser.B*, vol. 59, p. 135, 1980.

[3] S. Weinberg, "Implications of Dynamical Symmetry Breaking," *Phys.Rev.*, vol. D13, pp. 974–996, 1976.

[4] S. Weinberg, "Implications of Dynamical Symmetry Breaking: An Addendum," *Phys.Rev.*, vol. D19, pp. 1277–1280, 1979.

[5] L. Susskind, "Dynamics of Spontaneous Symmetry Breaking in the Weinberg-Salam Theory," *Phys.Rev.*, vol. D20, pp. 2619–2625, 1979.