

# **SUPERSYMMETRY**

**Curso 2012-2013**

## **REFERENCES**

### **Books**

The classic book which is considered to be the standard reference in Supersymmetry is:

-Julius Wess and Jonathan Bagger, "Supersymmetry and Supergravity", Princeton Series in Physics, 1992

Some other books with a more modern perspective are:

-P. Binetruy, "Supersymmetry", Oxford University Press 2006.

-J. Terning, "Modern Supersymmetry", Oxford University Press 2006.

-S. Weinberg, "Supersymmetry" (Volume 3 of "The quantum Theory of Fields"), Cambridge University Press 2000.

-Ian Aitchison, "Supersymmetry in Particle Physics", Cambridge University Press 2007.

### **Short Reviews for beginners**

-Adel Bilal, "Introduction to Supersymmetry, arXiv: hep-th/0101055

-Adrian Signer, "ABC of SUSY", arXiv: 0905.4630

-Yuri Shiman, "TASI 2008 lectures: Introduction to supersymmetry and supersymmetry breaking", arXiv: 0907.0039.

### **More complete Reviews**

-P. Argyres, "Lectures on Global Supersymmetry", available from the webpage  
<http://www.physics.uc.edu/~argyres/661/index.html>

-Joshep D. Lykken, "Introduction to Supersymmetry", arXiv: hep-th/9612114.

-P. Di Vecchia, "Duality in N=2, 4 supersymmetric gauge theories", arXiv: hep-th/98032026.

-Luis Alvarez-Gaume and S. F. Hassan, "Introduction to S-duality in N=2 Supersymmetric gauge theories", arXiv: hep-th/9701069.

- M. Peskin, "Supersymmetry in Elementary particle physics", arXiv: 0801.1928

A rather complete list of reviews can be found in:

[http://www.stringwiki.org/wiki/Supersymmetry\\_and\\_Supergravity](http://www.stringwiki.org/wiki/Supersymmetry_and_Supergravity)