

# Bibliography

- [1] Y. Fukuda *et al* (Super-Kamiokande collaboration), “Evidence for Oscillation of Atmospheric Neutrinos”, Physical Review Letters 81,1562 (24 August 1998)
- [2] W.N.Cottingham, D.A. Greenwood. An Introduction to Standard Model of Particle Physics. Cambridge University Press
- [3] Kendall. H. W. and Panofsky. W. K. H. (June 1971) Scientific American, 61.
- [4] Griffiths, David J. (1987). Introduction to Elementary Particles. Wiley, John & Sons, Inc. ISBN 0-471-60386-4. ; Tipler, Paul; Llewellyn, Ralph (2002). Modern Physics (4th ed.). W. H. Freeman.
- [5] Stephen P. Martin, A Supersymmetry Primer, arXiv:hep-ph/9709356
- [6] Ian J.R. Aitchison, Supersymmetry in Particle Physics An Elementary Introduction. Department of Physics, University of Oxford The Rudolf Peierls Centre for Theoretical Physics and Stanford Linear Accelerator Center, Stanford University. Cambridge University Press
- [7] The CMS Collaboration, Search for stop and higgsino production using diphoton Higgs boson decays, Phys. Rev. Lett. 112 (2014) 161802
- [8] Search for supersymmetry using razor variables in events with b-tagged jets in pp collisions at  $\sqrt{s} = 8$  TeV, Phys. Rev. D 91, 052018
- [9] Search for top-squark pairs decaying into Higgs or Z bosons in pp collisions at  $\sqrt{s} = 8$  TeV , Phys. Lett. B 736 (2014) 371
- [10] The CMS Collaboration, Search for lepton-flavour-violating decays of the Higgs boson, Phys. Lett. B 749 (2015) 337, arXiv:1502.07400 [hep-ex]
- [11] Melina Gómez Bock. Deviations from universality of slepton masses in the MSSM. Rev. Mex. Fis. 54:30-34, 2008. arXiv:0810.4309
- [12] C. D. Froggatt and H. B. Nielsen, Nucl. Phys. B **147**, 277 (1979). H. Fritzsch, arXiv:hep-ph/0111051.
- [13] J. L. Diaz-Cruz, H. J. He and C. P. Yuan, Phys. Lett. B **530**, 179 (2002) [arXiv:hep-ph/0103178].
- [14] S. Glashow and S. Weinberg, Phys. Rev. D **15**, 1958 (1977).

- [15] William J. Marciano, *FCNC: a Perspective*. Proceedings of Symposium of FCNC: Present and Future Studies. Editor Davd B. Cline. Word Scientific. 1997.
- [16] J. L. Diaz-Cruz, R. Noriega-Papaqui and A. Rosado, Phys. Rev. D **71**, 015014 (2005) [arXiv:hep-ph/0410391].
- [17] J. L. Diaz-Cruz, M. Gomez-Bock, R. Noriega-Papaqui and A. Rosado, “A statistical analysis of the supersymmetric flavor problem and radiative fermion masses,” arXiv:hep-ph/0512168.
- [18] L. J. Hall, V. A. Kostelecky and S. Raby, Nucl. Phys. B **267** (1986) 415.
- [19] J. L. Feng and F. Wilczek, Phys. Lett. B **631** (2005) 170 [arXiv:hep-ph/0507032].
- [20] Y. Nir and N. Seiberg, Phys. Lett. B **309** (1993) 337 [arXiv:hep-ph/9304307].
- [21] For a review see: See for example: S. P. Martin, arXiv:hep-ph/9709356.
- [22] M. Kuroda, arXiv:hep-ph/9902340.
- [23] H.J.W. Müller-Kirsten, A. Wiedemann. Supersymmetry An introduction with Conceptual and Computational Details. World Scientific.
- [24] For a review see: Ian. J.R. Aitchison, arXiv:hep-ph/0505105.
- [25] used as phenomenological parameters as in E. Accomando *et al.* [ECFA/DESY LC Physics Working Group Collaboration], Phys. Rept. **299**, 1 (1998) [arXiv:hep-ph/9705442].
- [26] Vernon Barger, Muneyuki Ishida, Wai-Yee Keung. Phys. Rev. Lett. 108, 261801 (2012)
- [27] LHC Higgs Cross Section Working Group; Dittmaier; Mariotti; Passarino; Tanaka; Alekhin; Alwall; Bagnaschi; Banfi (2012). “Handbook of LHC Higgs Cross Sections: 2. Differential Distributions”. CERN Report 2 (Tables A.1 – A.20) 1201: 3084.
- [28] R. Covarelli for the CMS Collaboration. Constraints on the Higgs-Boson total width using  $H^*(126) \rightarrow ZZ$  Events
- [29] CMS Collaboration. Constraints on the Higgs boson width from off-shell production and decay to Z-bosons pairs. Phys. Lett. B 736 (2014) 64
- [30] ATLAS Collaboration. Determination of the off-shell Higgs boson signal strength in the high-mass ZZ and WW final states with the ATLAS detector. Eur. Phys. J. C (2015) 75:335
- [31] CERN-Brochure-2009-003-ENG, LHC the guide. Communication Group, February 2009.
- [32] CERN Collaboration, Chapter ALICE experiment: The CERN Large Hadron Collider: Accelerators and Experiments Volume 1: LHC Machine, Alice, and Atlas. CERN, 2008.

- [33] CERN Collaboration, The CERN Large Hadron Collider: Accelerators and Experiments Volume 1: LHC Machine, Alice, and Atlas. CERN, 2008.
- [34] Carlos A. Bertulani, Spencer R. Klein, Joakim Nystrand. Physics of Ultra-Peripheral Nuclear Collisions *Ann.Rev.Nucl.Part.Sci.*55:271-310,2005. arXiv:nucl-ex/0502005
- [35] I.A.Pschenichnov. Nuclear disintegration induced by virtual photons at heavy-ion colliders. arXiv:nucl-th/9912008
- [36] Gerhard Baur, Kai Hencken, Dirk Trautmann. Photon-Photon and Photon-Hadron Interactions at Relativistic Heavy Ion Colliders. *Prog.Part.Nucl.Phys.* 42 (1999) 357-366. arXiv:nucl-th/9810078
- [37] K.A. Olive et al. (Particle Data Group), *Chin. Phys. C*, 38, 090001 (2014) and 2015 update.  $J/\Psi(1S)$ .
- [38] *Phys. Lett. B* 718 (2013) 1273 – 1283
- [39] Thomas Hahn, LoopTools 2.12 User's Guide. 2014