

Bibliographie de thèse

Liste des entrées dans le fichier .bib

Lucas TORTEROTOT
20 avril 2020

Références

- [1] M. AABOUD & coll. « Search for additional heavy neutral Higgs and gauge bosons in the ditau final state produced in 36 fb^{-1} of pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector ». *Journal of High Energy Physics* **2018.1** (jan. 2018). DOI : [10.1007/jhep01\(2018\)055](https://doi.org/10.1007/jhep01(2018)055). URL : [http://dx.doi.org/10.1007/JHEP01\(2018\)055](http://dx.doi.org/10.1007/JHEP01(2018)055).
- [2] G. Aad & coll. « Combined measurement of the Higgs boson mass in pp collisions at $\sqrt{s} = 7$ and 8 TeV with the ATLAS and CMS Experiments ». *Physical Review Letters* **114.19** (mai 2015). DOI : [10.1103/physrevlett.114.191803](https://doi.org/10.1103/physrevlett.114.191803). URL : <http://dx.doi.org/10.1103/PhysRevLett.114.191803>.
- [3] G. Aad & coll. « Measurements of the Higgs boson production and decay rates and constraints on its couplings from a combined ATLAS and CMS analysis of the LHC pp collision data at $\sqrt{s} = 7$ and 8 TeV ». *Journal of High Energy Physics* **08** (août 2016). DOI : [10.1007/jhep08\(2016\)045](https://doi.org/10.1007/jhep08(2016)045). URL : [http://dx.doi.org/10.1007/JHEP08\(2016\)045](http://dx.doi.org/10.1007/JHEP08(2016)045).
- [4] G. Aad & coll. : The ATLAS Collaboration. « Observation of a new particle in the search for the Standard Model Higgs boson with the ATLAS detector at the LHC ». *Physics Letters B* **716.1** (2012), p. 1-29. DOI : <https://doi.org/10.1016/j.physletb.2012.08.020>. URL : <http://www.sciencedirect.com/science/article/pii/S037026931200857X>.
- [5] G. Aad & coll. : The ATLAS Collaboration. « Search for the neutral Higgs bosons of the Minimal Supersymmetric Standard Model in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ with the ATLAS detector ». *Journal of High Energy Physics* **02** (2013), p. 095. DOI : [10.1007/JHEP02\(2013\)095](https://doi.org/10.1007/JHEP02(2013)095). arXiv : [1211.6956](https://arxiv.org/abs/1211.6956) [hep-ex].
- [6] T. AALTONEN & coll. : The CDF Collaboration. « Search for Higgs bosons predicted in two-Higgs-doublet models via decays to tau lepton pairs in $1.96 \text{ TeV } p\bar{p}$ collisions ». *Physical Review Letters* **103** (2009), p. 201801. DOI : [10.1103/PhysRevLett.103.201801](https://doi.org/10.1103/PhysRevLett.103.201801). arXiv : [0906.1014](https://arxiv.org/abs/0906.1014) [hep-ex].
- [7] S. ABACHI & coll. : The D0 Collaboration. « Observation of the top quark ». *Physical Review Letters* **74.14** (avr. 1995), p. 2632-2637. DOI : [10.1103/physrevlett.74.2632](https://doi.org/10.1103/physrevlett.74.2632). URL : <http://dx.doi.org/10.1103/PhysRevLett.74.2632>.
- [8] V. M. ABAZOV & coll. : The DØ Collaboration. « Search for Higgs bosons decaying to $\tau\tau$ pairs in $p\bar{p}$ collisions at $\sqrt{s} = 1.96 \text{ TeV}$ ». *Physics Letters B* **707** (2012), p. 323-329. DOI : [10.1016/j.physletb.2011.12.050](https://doi.org/10.1016/j.physletb.2011.12.050). arXiv : [1106.4555](https://arxiv.org/abs/1106.4555) [hep-ex].
- [9] F. ABE & coll. : The CDF Collaboration. « Observation of top quark production in $p\bar{p}$ collisions with the collider detector at Fermilab ». *Physical Review Letters* **74.14** (avr. 1995), p. 2626-2631. DOI : [10.1103/physrevlett.74.2626](https://doi.org/10.1103/physrevlett.74.2626). URL : <http://dx.doi.org/10.1103/PhysRevLett.74.2626>.
- [10] P. A. R. ADE & coll. « Planck 2013 results. I. Overview of products and scientific results ». *Astronomy & Astrophysics* **571** (oct. 2014). DOI : [10.1051/0004-6361/201321529](https://doi.org/10.1051/0004-6361/201321529). URL : <http://dx.doi.org/10.1051/0004-6361/201321529>.
- [11] Q. R. AHMAD & coll. : SNO Collaboration. « Direct Evidence for Neutrino Flavor Transformation from Neutral-Current Interactions in the Sudbury Neutrino Observatory ». *Physical Review Letters* **89** (1 juin 2002). DOI : [10.1103/PhysRevLett.89.011301](https://doi.org/10.1103/PhysRevLett.89.011301). URL : <https://link.aps.org/doi/10.1103/PhysRevLett.89.011301>.

- [12] S. ALIOLI & coll. « A general framework for implementing NLO calculations in shower Monte Carlo programs : the POWHEG BOX ». *Journal of High Energy Physics* **06** (2010), p. 043. DOI : [10.1007/jhep06\(2010\)043](https://doi.org/10.1007/jhep06(2010)043). arXiv : [1002.2581](https://arxiv.org/abs/1002.2581) [hep-ph].
- [13] J. ALLISON & coll. « Geant4 developments and applications ». *IEEE Transactions on Nuclear Science* **53.1** (fév. 2006), p. 270-278. DOI : [10.1109/tns.2006.869826](https://doi.org/10.1109/tns.2006.869826).
- [14] J. ALWALL & coll. « MadGraph 5 : Going Beyond ». *Journal of High Energy Physics* **06** (2011), p. 128. DOI : [10.1007/jhep06\(2011\)128](https://doi.org/10.1007/jhep06(2011)128). arXiv : [1106.0522](https://arxiv.org/abs/1106.0522) [hep-ph].
- [15] B. ANDERSSON & coll. « Parton fragmentation and string dynamics » (avr. 1983). URL : <http://cds.cern.ch/record/143980>.
- [16] J. ANDREJKOVIC & coll. « Data-driven background estimation of fake-tau backgrounds in di-tau final states with 2016 and 2017 data ». *CMS analysis Note* (oct. 2018).
- [17] G. ARNISON & coll. « Experimental observation of isolated large transverse energy electrons with associated missing energy at $\sqrt{s} = 540$ GeV ». *Physics Letters B* **122.1** (1983), p. 103-116. DOI : [https://doi.org/10.1016/0370-2693\(83\)91177-2](https://doi.org/10.1016/0370-2693(83)91177-2). URL : <http://www.sciencedirect.com/science/article/pii/0370269383911772>.
- [18] G. ARNISON & coll. « Experimental observation of lepton pairs of invariant mass around $95 \text{ GeV} \cdot c^{-2}$ at the CERN SPS collider ». *Physics Letters B* **126.5** (1983), p. 398-410. DOI : [https://doi.org/10.1016/0370-2693\(83\)90188-0](https://doi.org/10.1016/0370-2693(83)90188-0). URL : <http://www.sciencedirect.com/science/article/pii/0370269383901880>.
- [19] G. ARNISON & coll. « Further evidence for charged intermediate vector bosons at the SPS collider ». *Physics Letters B* **129.3** (1983), p. 273-282. DOI : [https://doi.org/10.1016/0370-2693\(83\)90860-2](https://doi.org/10.1016/0370-2693(83)90860-2). URL : <http://www.sciencedirect.com/science/article/pii/0370269383908602>.
- [20] P. BAGNAIA & coll. « Evidence for $Z^0 \rightarrow e^+e^-$ at the CERN pp collider ». *Physics Letters B* **129.1** (1983), p. 130-140. DOI : [https://doi.org/10.1016/0370-2693\(83\)90744-X](https://doi.org/10.1016/0370-2693(83)90744-X). URL : <http://www.sciencedirect.com/science/article/pii/037026938390744X>.
- [21] M. BANNER & coll. « Observation of single isolated electrons of high transverse momentum in events with missing transverse energy at the CERN pp collider ». *Physics Letters B* **122.5** (1983), p. 476-485. DOI : [https://doi.org/10.1016/0370-2693\(83\)91605-2](https://doi.org/10.1016/0370-2693(83)91605-2). URL : <http://www.sciencedirect.com/science/article/pii/0370269383916052>.
- [22] R. BARATE & coll. : OPAL, DELPHI, LEP Working Group for Higgs boson searches, ALEPH, L3. « Search for the standard model Higgs boson at LEP ». *Physics Letters B* **565** (2003), p. 61-75. DOI : [10.1016/S0370-2693\(03\)00614-2](https://doi.org/10.1016/S0370-2693(03)00614-2). arXiv : [hep-ex/0306033](https://arxiv.org/abs/hep-ex/0306033) [hep-ex].
- [23] C. BERNET. « Caractérisation des détecteurs Micromégas et mesure de la polarisation des gluons sur COMPASS ». Thèse de doct. Paris 7 - Denis Diderot, mai 2004. URL : <http://cds.cern.ch/record/1482660>.
- [24] C. BERNET. « Reconstruction du flux de particules et mise en évidence de la désintégration du boson de Higgs en paire de τ avec CMS ». Thèse d'HDR (2017). URL : <https://drive.google.com/open?id=0B3nnTYQibadjVkvVUi03cGRiYlk>.
- [25] L. BIANCHINI & coll. « Reconstruction of the Higgs mass in $H \rightarrow \tau\tau$ Events by Dynamical Likelihood techniques ». *Journal of Physics : Conference Series* **513.2** (juin 2014), p. 022035. DOI : [10.1088/1742-6596/513/2/022035](https://doi.org/10.1088/1742-6596/513/2/022035). URL : <https://doi.org/10.1088/1742-6596/513/2/022035>.
- [26] N. CABIBBO. « Unitary Symmetry and Leptonic Decays ». *Physical Review Letters* **10** (12 juin 1963), p. 531-533. DOI : [10.1103/PhysRevLett.10.531](https://doi.org/10.1103/PhysRevLett.10.531). URL : <https://link.aps.org/doi/10.1103/PhysRevLett.10.531>.
- [27] N. CABIBBO. « Unitary Symmetry and Nonleptonic Decays ». *Physical Review Letters* **12** (2 jan. 1964), p. 62-63. DOI : [10.1103/PhysRevLett.12.62](https://doi.org/10.1103/PhysRevLett.12.62). URL : <https://link.aps.org/doi/10.1103/PhysRevLett.12.62>.

- [28] M. CACCIARI, G. P. SALAM & G. SOYEZ. « FastJet user manual ». *European Physical Journal C* **72** (nov. 2012), p. 1896. DOI : [10.1140/epjc/s10052-012-1896-2](https://doi.org/10.1140/epjc/s10052-012-1896-2). arXiv : [1111.6097](https://arxiv.org/abs/1111.6097) [hep-ph].
- [29] M. CACCIARI, G. P. SALAM & G. SOYEZ. « The Anti- k_T jet clustering algorithm ». *Journal of High Energy Physics* **04** (avr. 2008), p. 63. DOI : [10.1088/1126-6708/2008/04/063](https://doi.org/10.1088/1126-6708/2008/04/063). arXiv : [0802.1189](https://arxiv.org/abs/0802.1189) [hep-ph].
- [30] CERN. *The World Wide Web Project*. 1989. URL : <http://info.cern.ch/hypertext/WWW/TheProject.html>.
- [31] S. CHATRCHYAN & coll. : The CMS Collaboration. « Evidence for the 125 GeV Higgs boson decaying to a pair of τ leptons ». *Journal of High Energy Physics* **05** (20 jan. 2014), p. 104. DOI : [10.1007/JHEP05\(2014\)104](https://doi.org/10.1007/JHEP05(2014)104). arXiv : [1401.5041v2](https://arxiv.org/abs/1401.5041v2) [hep-ex].
- [32] S. CHATRCHYAN & coll. : The CMS Collaboration. « Observation of a new boson at a mass of 125 GeV with the CMS experiment at the LHC ». *Physics Letters B* **716.1** (2012), p. 30-61. DOI : <https://doi.org/10.1016/j.physletb.2012.08.021>. URL : <http://www.sciencedirect.com/science/article/pii/S0370269312008581>.
- [33] S. CHATRCHYAN & coll. : The CMS collaboration. « Observation of a new boson with mass near 125 GeV in pp collisions at $\sqrt{s} = 7$ and 8 TeV ». *Journal of High Energy Physics* **06** (juin 2013). DOI : [10.1007/jhep06\(2013\)081](https://doi.org/10.1007/jhep06(2013)081).
- [34] S. CHATRCHYAN & coll. : The CMS Collaboration. « Search for a Higgs boson decaying into a b -quark pair and produced in association with b quarks in proton-proton collisions at 7 TeV ». *Physics Letters B* **722** (2013), p. 207-232. DOI : [10.1016/j.physletb.2013.04.017](https://doi.org/10.1016/j.physletb.2013.04.017). arXiv : [1302.2892](https://arxiv.org/abs/1302.2892) [hep-ex].
- [35] S. CHATRCHYAN & coll. : The CMS Collaboration. « Search for neutral Higgs bosons decaying to tau pairs in pp collisions at $\sqrt{s} = 7$ TeV ». *Physics Letters B* **713** (2012), p. 68-90. DOI : [10.1016/j.physletb.2012.05.028](https://doi.org/10.1016/j.physletb.2012.05.028). arXiv : [1202.4083](https://arxiv.org/abs/1202.4083) [hep-ex].
- [36] N. D. CHRISTENSEN, T. HAN & S. SU. « MSSM Higgs Bosons at The LHC ». *Physical Review D* **85** (2012), p. 115018. DOI : [10.1103/PhysRevD.85.115018](https://doi.org/10.1103/PhysRevD.85.115018). arXiv : [1203.3207](https://arxiv.org/abs/1203.3207) [hep-ph].
- [37] D. CLOWE & coll. « A Direct Empirical Proof of the Existence of Dark Matter ». *The Astrophysical Journal* **648.2** (août 2006). DOI : [10.1086/508162](https://doi.org/10.1086/508162). URL : <http://dx.doi.org/10.1086/508162>.
- [38] Dask : *Scalable analytics in Python*. URL : <https://dask.org/>.
- [39] A. DAVIDSON & K. C. WALI. « Family mass hierarchy from universal seesaw mechanism ». *Physical Review Letters* **60** (18 mai 1988), p. 1813-1816. DOI : [10.1103/PhysRevLett.60.1813](https://doi.org/10.1103/PhysRevLett.60.1813). URL : <https://link.aps.org/doi/10.1103/PhysRevLett.60.1813>.
- [40] A. DJOUADI & coll. « The post-Higgs MSSM scenario : Habemus MSSM ? » *The European Physical Journal C* **73.12** (19 juil. 2013), p. 2650. DOI : [10.1140/epjc/s10052-013-2650-0](https://doi.org/10.1140/epjc/s10052-013-2650-0). arXiv : [1307.5205v1](https://arxiv.org/abs/1307.5205v1) [hep-ph].
- [41] S. DÜRR & coll. « Ab Initio Determination of Light Hadron Masses ». *Science* **322**.5905 (nov. 2008), p. 1224-1227. DOI : [10.1126/science.1163233](https://doi.org/10.1126/science.1163233).
- [42] F. ENGLERT & R. BROUT. « Broken symmetry and the mass of gauge vector mesons ». *Physical Review Letters* **13.9** (9 août 1964), p. 321-323. DOI : [10.1103/PhysRevLett.13.321](https://doi.org/10.1103/PhysRevLett.13.321). URL : <https://link.aps.org/doi/10.1103/PhysRevLett.13.321>.
- [43] J. de FAVEREAU & coll. « DELPHES 3 : a modular framework for fast simulation of a generic collider experiment ». *Journal of High Energy Physics* **2** (fév. 2014). DOI : [10.1007/jhep02\(2014\)057](https://doi.org/10.1007/jhep02(2014)057). URL : [http://dx.doi.org/10.1007/JHEP02\(2014\)057](http://dx.doi.org/10.1007/JHEP02(2014)057).
- [44] Y. FUKUDA & coll. : Super-Kamiokande Collaboration. « Evidence for oscillation of atmospheric neutrinos ». *Physical Review Letters* **81** (8 août 1998), p. 1562-1567. DOI : [10.1103/PhysRevLett.81.1562](https://doi.org/10.1103/PhysRevLett.81.1562). URL : <https://link.aps.org/doi/10.1103/PhysRevLett.81.1562>.
- [45] M. GELL-MANN, P. RAMOND & R. SLANSKY. « Complex Spinors and Unified Theories » (1979). URL : <http://cds.cern.ch/record/133618>.

- [46] G. S. GURALNIK, C. R. HAGEN & T. W. B. KIBBLE. « Global Conservation Laws and Massless Particles ». *Physical Review Letters* **13.20** (20 nov. 1964), p. 585-587. DOI : [10.1103/PhysRevLett.13.585](https://doi.org/10.1103/PhysRevLett.13.585). URL : <https://link.aps.org/doi/10.1103/PhysRevLett.13.585>.
- [47] P. W. HIGGS. « Broken symmetries and the masses of gauge bosons ». *Physics Letters* **13.16** (oct. 1964), p. 132-133. DOI : [10.1103/physrevlett.13.508](https://doi.org/10.1103/physrevlett.13.508).
- [48] P. W. HIGGS. « Broken symmetries, massless particles and gauge fields ». *Physics Letters* **12.2** (sept. 1964), p. 132-133. DOI : [10.1016/0031-9163\(64\)91136-9](https://doi.org/10.1016/0031-9163(64)91136-9). URL : <https://cds.cern.ch/record/641590>.
- [49] CMS Collaboration. « Jet energy scale and resolution performance with 13 TeV data collected by CMS in 2016 » (juin 2018). URL : <http://cds.cern.ch/record/2622157>.
- [50] V. KHACHATRYAN & coll. « Search for neutral MSSM Higgs bosons decaying to a pair of tau leptons in pp collisions ». *Journal of High Energy Physics* **10** (oct. 2014). DOI : [10.1007/JHEP10\(2014\)160](https://doi.org/10.1007/JHEP10(2014)160). URL : [http://dx.doi.org/10.1007/JHEP10\(2014\)160](http://dx.doi.org/10.1007/JHEP10(2014)160).
- [51] V. KHACHATRYAN & coll. : The CMS Collaboration. « Event generator tunes obtained from underlying event and multiparton scattering measurements ». *European Physical Journal* **C76.3** (2016), p. 155. DOI : [10.1140/epjc/s10052-016-3988-x](https://doi.org/10.1140/epjc/s10052-016-3988-x). arXiv : [1512.00815](https://arxiv.org/abs/1512.00815) [hep-ex].
- [52] V. KHACHATRYAN & coll. : The CMS Collaboration. « Reconstruction and identification of tau lepton decays to hadrons and tau neutrino at CMS ». *Journal of Instrumentation* **11.1** (2016), P01019. DOI : [10.1088/1748-0221/11/01/P01019](https://doi.org/10.1088/1748-0221/11/01/P01019). arXiv : [1510.07488](https://arxiv.org/abs/1510.07488) [physics.ins-det].
- [53] V. KHACHATRYAN & coll. : The CMS Collaboration. « Search for neutral MSSM Higgs bosons decaying into a pair of bottom quarks ». *Journal of High Energy Physics* **11** (2015), p. 071. DOI : [10.1007/JHEP11\(2015\)071](https://doi.org/10.1007/JHEP11(2015)071). arXiv : [1506.08329](https://arxiv.org/abs/1506.08329) [hep-ex].
- [54] V. KHACHATRYAN & coll. : The CMS Collaboration. « Search for neutral MSSM Higgs bosons decaying to $\mu^+\mu^-$ in pp collisions at $\sqrt{s} = 7$ and 8 TeV ». *Physics Letters* **B752** (2016), p. 221-246. DOI : [10.1016/j.physletb.2015.11.042](https://doi.org/10.1016/j.physletb.2015.11.042). arXiv : [1508.01437](https://arxiv.org/abs/1508.01437) [hep-ex].
- [55] M. KOBAYASHI & T. MASKAWA. « CP-Violation in the Renormalizable Theory of Weak Interaction ». *Progress of Theoretical Physics* **49.2** (fév. 1973), p. 652-657. DOI : [10.1143/PTP.49.652](https://doi.org/10.1143/PTP.49.652). eprint : <https://academic.oup.com/ptp/article-pdf/49/2/652/5257692/49-2-652.pdf>. URL : <https://doi.org/10.1143/PTP.49.652>.
- [56] A. J. LARKOSKI. « An Unorthodox Introduction to QCD » (2017). arXiv : [1709.06195](https://arxiv.org/abs/1709.06195) [hep-ph].
- [57] Z. MAKI, M. NAKAGAWA & S. SAKATA. « Remarks on the Unified Model of Elementary Particles ». *Progress of Theoretical Physics* **28.5** (nov. 1962), p. 870-880. DOI : [10.1143/PTP.28.870](https://doi.org/10.1143/PTP.28.870). eprint : <https://academic.oup.com/ptp/article-pdf/28/5/870/5258750/28-5-870.pdf>. URL : <https://doi.org/10.1143/PTP.28.870>.
- [58] S. MELE. « The Measurement of the Number of Light Neutrino Species at LEP ». *Advanced Series on Directions in High Energy Physics* **23** (2015), p. 89-106. DOI : [10.1142/9789814644150_0004](https://doi.org/10.1142/9789814644150_0004). URL : <http://cds.cern.ch/record/2103251>.
- [59] R. N. MOHAPATRA & G. SENJANOVIĆ. « Neutrino Mass and Spontaneous Parity Nonconservation ». *Physical Review Letters* **44** (14 avr. 1980), p. 912-915. DOI : [10.1103/PhysRevLett.44.912](https://doi.org/10.1103/PhysRevLett.44.912). URL : <https://link.aps.org/doi/10.1103/PhysRevLett.44.912>.
- [60] R. N. MOHAPATRA & G. SENJANOVIĆ. « Neutrino masses and mixings in gauge models with spontaneous parity violation ». *Physical Review D* **23** (1 jan. 1981), p. 165-180. DOI : [10.1103/PhysRevD.23.165](https://doi.org/10.1103/PhysRevD.23.165). URL : <https://link.aps.org/doi/10.1103/PhysRevD.23.165>.
- [61] K. OLIVE & coll. : Particle Data Group. « Review of Particle Physics ». *Chinese Physics* **C38** (2014). DOI : [10.1088/1674-1137/38/9/090001](https://doi.org/10.1088/1674-1137/38/9/090001).
- [62] C. PATRIGNANI & coll. : Particle Data Group. « Review of Particle Physics ». *Chinese Physics* **C40** (2016). DOI : [10.1088/1674-1137/40/10/100001](https://doi.org/10.1088/1674-1137/40/10/100001).

- [63] The ATLAS Collaboration, The CMS Collaboration, The LHC Higgs Combination Group. *Procedure for the LHC Higgs boson search combination in Summer 2011*. Rapp. tech. CMS-NOTE-2011-005. ATL-PHYS-PUB-2011-11. Geneva : CERN, août 2011. URL : <https://cds.cern.ch/record/1379837>.
- [64] G. P. SALAM. *Elements of QCD for hadron colliders*. 2010. arXiv : 1011.5131 [hep-ph]. URL : <https://arxiv.org/pdf/1011.5131.pdf>.
- [65] G. P. SALAM & G. SOYEZ. « A practical seedless infrared-safe cone jet algorithm ». *Journal of High Energy Physics* **05** (mai 2007), p. 86. DOI : 10.1088/1126-6708/2007/05/086. URL : <http://dx.doi.org/10.1088/1126-6708/2007/05/086>.
- [66] S. SCHAEEL & coll. : DELPHI, OPAL, ALEPH, LEP Working Group for Higgs Boson Searches, L3. « Search for neutral MSSM Higgs bosons at LEP ». *European Physical Journal* **C47** (2006), p. 547-587. DOI : 10.1140/epjc/s2006-02569-7. arXiv : hep-ex/0602042 [hep-ex].
- [67] J. SCHECHTER & J. W. F. VALLE. « Neutrino masses in $SU(2) \times U(1)$ theories ». *Physical Review D* **22** (9 nov. 1980), p. 2227-2235. DOI : 10.1103/PhysRevD.22.2227. URL : <https://link.aps.org/doi/10.1103/PhysRevD.22.2227>.
- [68] ATLAS Collaboration. « Search for heavy Higgs bosons decaying into two tau leptons with the ATLAS detector using pp collisions at $\sqrt{s} = 13$ TeV » (2020). arXiv : 2002.12223 [hep-ex].
- [69] A. SIRUNYAN & coll. « Particle-flow reconstruction and global event description with the CMS detector ». *Journal of Instrumentation* **12.10** (juin 2017), P10003. DOI : 10.1088/1748-0221/12/10/P10003. arXiv : 1706.04965v2 [physics.ins-det]. URL : <http://stacks.iop.org/1748-0221/12/i=10/a=P10003>.
- [70] A. SIRUNYAN & coll. : The CMS Collaboration. « Search for additional neutral MSSM Higgs bosons in the di-tau final state in pp collisions at $\sqrt{s} = 13$ TeV ». *Journal of High Energy Physics* **09.007** (sept. 2018). DOI : 10.1007/JHEP09(2018)007.
- [71] A. SIRUNYAN & coll. : The CMS collaboration. « An embedding technique to determine $\tau\tau$ backgrounds in proton-proton collision data ». *Journal of Instrumentation* **14.06** (juin 2019). DOI : 10.1088/1748-0221/14/06/p06032.
- [72] T. SJÖSTRAND & coll. « An Introduction to PYTHIA 8.2 ». *Computer Physics Communications* **191** (2015), p. 159-177. DOI : 10.1016/j.cpc.2015.01.024. arXiv : 1410.3012 [hep-ph].
- [73] M. TANABASHI & coll. : Particle Data Group. « Review of Particle Physics ». *Phys. Rev.* **D98** (août 2018). DOI : 10.1103/PhysRevD.98.030001.
- [74] The ALICE Collaboration. « The ALICE experiment at the CERN LHC. A Large Ion Collider Experiment ». *Journal of Instrumentation* **3.S08002** (2008). DOI : 10.1088/1748-0221/3/08/S08002. URL : <http://cds.cern.ch/record/1129812>.
- [75] The ATLAS Collaboration. « The ATLAS Experiment at the CERN Large Hadron Collider ». *Journal of Instrumentation* **3.S08003** (2008). DOI : 10.1088/1748-0221/3/08/S08003. URL : <http://cds.cern.ch/record/1129811>.
- [76] The CMS Collaboration. « The CMS experiment at the CERN LHC. The Compact Muon Solenoid experiment ». *Journal of Instrumentation* **3.S08004** (2008). DOI : 10.1088/1748-0221/3/08/S08004. URL : <http://cds.cern.ch/record/1129810>.
- [77] The LHCb Collaboration. « The LHCb Detector at the LHC ». *Journal of Instrumentation* **3.S08005** (2008). DOI : 10.1088/1748-0221/3/08/S08005. URL : <http://cds.cern.ch/record/1129809>.
- [78] S. WEINBERG. « A model of leptons ». *Physical Review Letters* **19** (21 nov. 1967), p. 1264-1266. DOI : 10.1103/PhysRevLett.19.1264. URL : <https://link.aps.org/doi/10.1103/PhysRevLett.19.1264>.
- [79] J.-C. WINTER, F. KRAUSS & G. SOFF. « A modified cluster-hadronisation model ». *The European Physical Journal C* **36.3** (août 2004), p. 381-395. DOI : 10.1140/epjc/s2004-01960-8. URL : <http://dx.doi.org/10.1140/epjc/s2004-01960-8>.