

LIST OF PUBLICATIONS

Books

1. D. Baye, M. Dufour and B. Fuks, *Quantum Mechanics, a general introduction illustrated by solved exercises* (in French), ISBN: 978-2-3400-1937-9, Ellipses Editions (2017).
2. B. Fuks and M. Rausch de Traubenberg, *Supersymmetry, exercises and solutions* (in French), ISBN: 978-2-7298-6318-0, Ellipses Editions (2011).

Scientific publications

3. M. Frank, B. Fuks, S.K. Garg and P. Poulose, *Flavour-changing top quark decays in the alternative left-right model*, arXiv:2312.12523 [hep-ph] (submitted to PLB).
4. M. Frank, B. Fuks, A. Jueid, S. Moretti and O. Ozdal, *A novel search strategy for right-handed charged gauge bosons at the Large Hadron Collider*, arXiv:2312.08521 [hep-ph] (submitted to JHEP).
5. D. Agin, B. Fuks, M. D. Goodsell and T. Murphy, *Monojets reveal overlapping excesses for light compressed higgsinos*, arXiv:2311.17149 [hep-ph] (submitted to PLB).
6. C. Arina, B. Fuks, J. Heisig, M. Krämer, L. Mantani and L. Panizzi, *A comprehensive exploration of t-channel simplified models of dark matter*, Phys. Rev. D **108** (2023) 115007.
7. A. Belyaev, R. S. Chivukula, B. Fuks, E. H. Simmons and X. Wang, *Vectorlike top quark production via an electroweak dipole moment at a muon collider*, Phys. Rev. D **108** (2023) 035016.
8. G. Aad *et al.* [The ATLAS Collaboration], *Search for Majorana neutrinos in same-sign WW scattering events from pp collisions at $\sqrt{s} = 13$ TeV*, Eur. Phys. J. C **83** (2023) 824.
9. J. Fiaschi, B. Fuks, M. Klasen and A. Neuwirth, *Electroweak superpartner production at 13.6 TeV with Resummino*, Eur. Phys. J. C **83** (2023) 707.
10. L. Darmé, C. Degrande, C. Duhr, B. Fuks, M. Goodsell *et al.*, *UFO 2.0 – The Universal Feynman Output format*, Eur. Phys. J. C **83** (2023) 631.
11. J.Y. Araz, A. Buckley and B. Fuks, *Searches for new physics with boosted top quarks in the MadAnalysis 5 and Rivet frameworks*, Eur. Phys. J. C **83** (2023) 664.
12. A.H. Ajjath, B. Fuks, H.S. Shao and Y. Simon, *Precision predictions for exotic lepton production at the Large Hadron Collider*, Phys. Rev. D **107** (2023) 075011.
13. A.S. Cornell, A. Deandrea, T. Flacke, B. Fuks and L. Mason, *Top partners and scalar dark matter - a non-minimal reappraisal*, Phys. Rev. D **107** (2023) 075004.
14. J.Y. Araz, A. Buckley, B. Fuks, H. Reyes-Gonzalez, W. Waltenerberger, S.L. Williamson and J. Yellen, *Strength in numbers: optimal and scalable combination of LHC new-physics searches*, SciPost Phys. **14** (2023) 077.
15. C. Borschensky, B. Fuks, A. Jueid and A. Kulesza, *Scalar leptoquarks at the LHC and flavour anomalies: a comparison of pair-production modes at NLO-QCD*, JHEP **11** (2022) 006.
16. G. Alguero, J.Y. Araz, B. Fuks and S. Kraml, *Signal region combination with full and simplified likelihoods in MadAnalysis 5*, SciPost Phys. **14** (2023) 009.
17. A. Crivellin, B. Fuks and L. Schnell, *Explaining the hints for lepton flavour universality violation with three S_2 leptoquark generations*, JHEP **06** (2022) 169.
18. J. Fiaschi, B. Fuks, M. Klasen and A. Neuwirth, *Soft gluon resummation for associated squark-electroweakino production at the LHC*, JHEP **06** (2022) 130.
19. J. Y. Araz, B. Fuks, M. D. Goodsell and M. Utsch, *Recasting LHC searches for long-lived particles with MadAnalysis 5*, Eur. Phys. J. C **82** (2022) 597.
20. G. Bélanger, A. Bharucha, B. Fuks, A. Goudelis, J. Heisig, A. Jueid, A. Lessa, K. A. Mohan, G. Polesello and P. Pani, A. Pukhov, D. Sengupta and J. Zurita, *Leptoquark Manoeuvres in the Dark: a simultaneous solution of the dark matter problem and the R_D anomalies*, JHEP **02** (2022) 042.
21. S. Banerjee, G. Bélanger, D. Bhatia, B. Fuks and S. Raychaudhuri, *Phenomenological analysis of multi-pseudoscalar mediated dark matter models*, JHEP **07** (2022) 111.
22. A. S. Cornell, W. Doorsamy, B. Fuks, G. Harmsen and L. Mason, *Boosted decision trees in the era of new physics: a smuon analysis case study*, JHEP **04** (2022) 015.
23. J. Y. Araz, M. Frank, B. Fuks, S. Moretti and Ö. Özdal, *Cross-fertilising extra gauge boson searches at the LHC*, JHEP **11** (2021) 014.
24. C. Borschensky, B. Fuks, A. Kulesza and D. Schwartzländer, *Scalar leptoquark pair production at the LHC: precision predictions in the era of flavour anomalies*, JHEP **02** (2022) 157.
25. A. Belyaev, R. S. Chivukula, B. Fuks, E. H. Simmons and X. Wang, *Vector-Like top quark production via a chromo-magnetic moment at the LHC*, Phys. Rev. D **104** (2021) 095024.
26. A. Deandrea, T. Flacke, B. Fuks, L. Panizzi and H. S. Shao, *Single production of vector-like quarks: the effects of large width, interference and NLO corrections*, JHEP **08** (2021) 107.

27. **A. S. Cornell, A. Deandrea, T. Flacke, B. Fuks and L. Mason**, *Contact interactions and top-philic scalar dark matter*, JHEP **07** (2021) 026.
 28. **L. Darmé, B. Fuks and F. Maltoni**, *Top-philic heavy resonances in four-top final states and their EFT interpretation*, JHEP **21** (2021) 143.
 29. **B. Fuks, K. Hagiwara, K. Ma and Y. J. Zheng**, *Signatures of toponium formation in LHC run 2 data*, Phys. Rev. D **104** (2021) 034023.
 30. **B. Fuks, J. Neundorff, K. Peters, R. Ruiz and M. Saimpert**, *Probing the Weinberg Operator at Colliders*, Phys. Rev. D **103** (2021) 115014.
 31. **B. Fuks, J. Neundorff, K. Peters, R. Ruiz and M. Saimpert**, *Majorana neutrinos in same-sign $W^\pm W^\pm$ scattering at the LHC: Breaking the TeV barrier*, Phys. Rev. D **103** (2021) 055005.
 32. **C. Arina, B. Fuks, L. Mantani, H. Mies, L. Panizzi and J. Salko**, *Closing in on t -channel simplified dark matter models*, Phys. Lett. B **813** (2021) 136038.
 33. **B. Fuks, Y. Liu, C. Zhang and S. Y. Zhou**, *Positivity in electron-positron scattering: testing the axiomatic quantum field theory principles and probing the existence of UV states*, Chin. Phys. C **45** (2021) 023108.
 34. **B. Fuks, M. D. Goodsell, D. W. Kang, P. Ko, S. J. Lee and M. Utsch**, *Heavy dark matter through the dilaton portal*, JHEP **10** (2020), 044
 35. **J. Y. Araz, B. Fuks and G. Polykratis**, *Simplified fast detector simulation in MadAnalysis 5*, Eur. Phys. J. C **81** (2021) 329.
 36. **A. S. Cornell, A. Deandrea, B. Fuks and L. Mason**, *Future lepton collider prospects for a ubiquitous composite pseudo-scalar*, Phys. Rev. D **102** (2020) 035030.
 37. **M. Frank, B. Fuks, K. Huitu, S. Mondal, S. Rai and H. Waltari**, *The left-right supersymmetric option at a high-energy upgrade of the LHC*, Phys. Rev. D **101** (2020), 115014.
 38. **C. Borschensky, B. Fuks, A. Kulesza and D. Schwartzländer**, *Precision predictions for scalar leptoquark pair-production at hadron colliders*, Phys. Rev. D **101** (2020) 115017.
 39. **C. Arina, B. Fuks and L. Mantani**, *A universal framework for t -channel dark matter models*, Eur. Phys. J. C **80** (2020) 409.
 40. **B. Fuks, M. Nemevšek and R. Ruiz**, *Doubly Charged Higgs Boson Production at Hadron Colliders*, Phys. Rev. D **101** (2020) 075022.
 41. **M. Frank, B. Fuks and Ö. Özdal**, *Natural dark matter and light bosons with an alternative left-right symmetry*, JHEP **04** (2020) 116.
 42. **J. Y. Araz, M. Frank and B. Fuks**, *Reinterpreting the results of the LHC with MadAnalysis 5: uncertainties and higher-luminosity estimates*, Eur. Phys. J. C **80** (2020) 531.
 43. **S. Frixione, B. Fuks, V. Hirschi, K. Mawatari, H. S. Shao, P. A. Sunder and M. Zaro**, *Automated simulations beyond the Standard Model: supersymmetry*, JHEP **1912** (2019) 008.
 44. **B. Fuks, K. Nordström, R. Ruiz and S. L. Williamson**, *Sleptons without Hadrons*, Phys. Rev. D **100** (2019) no.7, 074010.
 45. **G. Cacciapaglia, A. Carvalho, A. Deandrea, T. Flacke, B. Fuks, D. Majumder, L. Panizzi and H. S. Shao**, *Next-to-leading-order predictions for single vector-like quark production at the LHC*, Phys. Lett. B **793** (2019) 206.
 46. **G. Cacciapaglia, E. Conte, A. Deandrea, B. Fuks and H. S. Shao**, *LHC constraints and potential on resonant monoton production*, Eur. Phys. J. C **79** (2019) 174.
 47. **J. Y. Araz, S. Banerjee, M. Frank, B. Fuks and A. Goudelis**, *Exploring vector-like supersymmetric extensions of the Standard Model with dark matter and colliders*, Phys. Rev. D **98** (2018) 115009.
 48. **A. Chatterjee, M. Frank, B. Fuks, K. Huitu, S. Mondal, S. K. Rai and H. Waltari**, *Multi-leptonic signals of co-annihilating left-right supersymmetric dark matter*, Phys. Rev. D **99** (2019) 035017.
 49. **A. Chakraborty, M. Endo, B. Fuks, B. Herrmann, M. M. Nojiri, P. Pani and G. Polesello**, *Flavour-violating decays of mixed top-charm squarks at the LHC*, Eur. Phys. J. C **78** (2018) 844.
 50. **E. Conte and B. Fuks**, *Confronting new physics theories to LHC data with MadAnalysis 5*, Int. J. Mod. Phys. A **33** (2018) no.28, 1830027.
 51. **L. Darmé, B. Fuks and M. Goodsell**, *Cornering sgluons with four-top-quark events*, Phys. Lett. B **784** (2018) 223.
 52. **D. Borah, B. Fuks, D. Goswami and P. Poullose**, *Investigating the scalar sector of left-right symmetric models with leptonic probes*, Phys. Rev. D **98** (2018) no.3, 035008.
 53. **S. Colucci, B. Fuks, F. Giacchino, L. Lopez Honorez, M. H. G. Tytgat and J. VandeCasteele**, *Top-philic Vector-Like Portal to Scalar Dark Matter*, Phys. Rev. D **98** (2018) 035002.
 54. **A. M. Sirunyan et al. [CMS Collaboration]**, *Search for new physics in events with two soft oppositely charged leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV*, Phys. Lett. B **782** (2018) 440.
 55. **B. Coleppa, B. Fuks, P. Poullose and S. Sahoo**, *Seeking Heavy Higgs Bosons through Cascade Decays*, Phys. Rev. D **97** (2018) no.7, 075007.
-

56. J. Y. Araz, G. Corcella, M. Frank and B. Fuks, *Loopholes in Z' searches at the LHC: exploring supersymmetric and leptophobic scenarios*, JHEP **1802** (2018) 092.
 57. B. Fuks, M. Klasen, S. Schiemann and M. Sunder, *Realistic simplified gaugino-higgsino models in the MSSM*, Eur. Phys. J. C **78** (2018) no.3, 209.
 58. S. Banerjee, D. Barducci, G. Bélanger, B. Fuks, A. Goudelis and B. Zaldivar, *Cornering pseudoscalar-mediated dark matter with the LHC and cosmology*, JHEP **1707** (2017) 080.
 59. J. Y. Araz, M. Frank and B. Fuks, *Differentiating $U(1)'$ supersymmetric models with right sneutrino and neutralino dark matter*, Phys. Rev. D **96** (2017) no.1, 015017.
 60. B. Fuks, J. H. Kim and S. J. Lee, *Scrutinizing the Higgs quartic coupling at a future 100 TeV proton-proton collider with taus and b-jets*, Phys. Lett. B **771** (2017) 354-358.
 61. G. Cacciapaglia, H. Cai, A. Carvalho, A. Deandrea, T. Flacke, B. Fuks, D. Majumder and H. S. Shao, *Probing vector-like quark models with Higgs-boson pair production*, JHEP **1707** (2017) 005.
 62. M. Frank, B. Fuks, K. Huitu, S. K. Rai and H. Waltari, *Resonant slepton production and right sneutrino dark matter in left-right supersymmetry*, JHEP **1705** (2017) 015.
 63. B. Fuks and R. Ruiz, *A comprehensive framework for studying W' and Z' bosons at hadron colliders with automated jet veto resummation*, JHEP **1705** (2017) 032.
 64. F. Ferreira, B. Fuks, V. Sanz and D. Sengupta, *Probing CP-violating Higgs and gauge boson couplings in the Standard Model effective field theory*, Eur. Phys. J. C **77** (2017) 675.
 65. B. Fuks and H. S. Shao, *QCD next-to-leading order predictions matched to parton showers for vector-like quark models*, Eur. Phys. J. C **77** (2017) no.2, 135.
 66. D. Barducci, A. Bharucha, N. Desai, M. Frigerio, B. Fuks, A. Goudelis, S. Kulkarni, G. Polesello and D. Sengupta, *Monojet searches for momentum-dependent dark matter interactions*, JHEP **1701** (2017) 078.
 67. C. Degrande, B. Fuks, K. Mawatari, K. Mimasu and V. Sanz, *Electroweak Higgs boson production in the standard model effective field theory beyond leading order in QCD*, Eur. Phys. J. C **77** (2017) no.4, 262.
 68. C. Arina, M. Backovic, E. Conte, B. Fuks, J. Guo, J. Heisig, B. Hespel, M. Kramer, F. Maltoni, A. Martini, K. Mawatari, M. Pellen and E. Vryonidou, *A comprehensive approach to dark matter studies: exploration of simplified top-philic models*, JHEP **1611** (2016) 111.
 69. B. Fuks, D. W. Kang, S. C. Park and M. S. Seo, *Investigating the jet activity accompanying the production at the LHC of a massive scalar particle decaying into photons*, Phys. Lett. B **761** (2016) 344.
 70. E. Conte, B. Fuks, J. Guo, J. Li and A.G. Williams, *Investigating light NMSSM pseudoscalar states with boosted ditau tagging*, JHEP **1605** (2016) 001.
 71. B. Fuks, M. Klasen and M. Rothering, *Soft gluon resummation for associated gluino-gaugino production at the LHC*, JHEP **1607** (2016) 053.
 72. M. Blanke, B. Fuks, I. Galon and G. Perez, *Gluino Meets Flavored Naturalness*, JHEP **1604** (2016) 044.
 73. B. Fuks, J. H. Kim and S. J. Lee, *Probing Higgs self-interactions in proton-proton collisions at a center-of-mass energy of 100 TeV*, Phys. Rev. D **93** (2016) no.3, 035026.
 74. C. Degrande, B. Fuks, V. Hirschi, J. Proudom and H. S. Shao, *Gluino pair-production matched to parton showers at the next-to-leading order*, Phys. Lett. B **755** (2016) 82.
 75. K. De Causmaecker, B. Fuks, B. Herrmann, F. Mahmoudi, B. O'Leary, W. Porod, S. Sekmen and N. Strobbe, *General squark flavour mixing: constraints, phenomenology and benchmarks*, JHEP **1511** (2015) 125.
 76. A. Falkowski, B. Fuks, K. Mawatari, K. Mimasu, F. Riva and V. Sanz, *Rosetta: an operator basis translator for Standard Model effective field theory*, Eur. Phys. J. C **75** (2015) 12, 583.
 77. L. Basso, B. Fuks, M. E. Krauss and W. Porod, *Doubly-charged Higgs and vacuum stability in left-right supersymmetry*, JHEP **1507** (2015) 147.
 78. L. Beck, F. Blekman, D. Dobur, B. Fuks, J. Keaveney and K. Mawatari, *Probing top-philic gluons with LHC Run I data*, Phys. Lett. B **746** (2015) 48.
 79. J. A. Aguilar-Saavedra, B. Fuks and M. L. Mangano, *Pinning down top dipole moments with ultra-boosted tops*, Phys. Rev. D **91** (2015) 094021.
 80. C. Degrande, B. Fuks, V. Hirschi, J. Proudom and H. S. Shao, *Automated next-to-leading order predictions for colored scalar production at the LHC*, Phys. Rev. D **91** (2015) 094005.
 81. V. Khachatryan *et al.* [CMS Collaboration], *Search for monotop signatures in proton-proton collisions at $\sqrt{s} = 8$ TeV*, Phys. Rev. Lett. **114** (2015) 101801.
 82. B. Fuks, P. Richardson and A. Wilcock, *Pinning down compressed supersymmetric scenarios with monotop probes*, Eur. Phys. J. C **75** (2015) 308.
 83. I. Boucheneb, G. Cacciapaglia, A. Deandrea and B. Fuks, *Revisiting monotop production at the LHC*, JHEP **1501** (2015) 017.
-

-
84. **B. Dumont, B. Fuks, S. Kraml et al.**, *Towards a public analysis database for LHC new physics searches using MadAnalysis 5*, Eur. Phys. J. C **75** (2015) 56.
85. **E. Conte, B. Dumont, B. Fuks and C. Wymant**, *Designing and recasting LHC analyses with MadAnalysis 5*, Eur. Phys. J. C **74** (2014) 3103.
86. **B. Fuks, J. Proudome, J. Rojo and I. Schienbein**, *Characterizing New Physics with Polarized Beams at High-Energy Hadron Colliders*, JHEP **1405** (2014) 045.
87. **The CMS Collaboration**, *Search for new physics with monotop final states in pp collisions at $\sqrt{s} = 8$ TeV*, CMS-PAS-B2G-12-022.
88. **J. Alwall, C. Duhr, B. Fuks, O. Mattelaer, D. G. Ozturk and C.-H. Shen**, *Computing decay rates for new physics theories with FeynRules and MadGraph5/aMC@NLO*, Comput. Phys. Commun. **197** (2015) 312-323.
89. **J.-L. Agram, J. Andrea, M. Buttignol, E. Conte and B. Fuks**, *Monotop phenomenology at the Large Hadron Collider*, Phys. Rev. D **89** (2014) 014028.
90. **A. Alloul, B. Fuks and V. Sanz**, *Phenomenology of the Higgs Effective Lagrangian via FeynRules*, JHEP **1404** (2014) 110.
91. **B. Fuks, M. Klasen, D. Lamprea and M. Rothering**, *Revisiting slepton pair production at the Large Hadron Collider*, JHEP **1401** (2014) 168.
92. **A. Alloul, N. D. Christensen, C. Degrande, C. Duhr and B. Fuks**, *FeynRules 2.0 - A complete toolbox for tree-level phenomenology*, Comput. Phys. Commun. **185** (2014) 2250-2300.
93. **J. D'Hondt, K. de Causmaecker, B. Fuks, A. Mariotti, K. Mawatari, C. Petersson and D. Redigolo**, *Multilepton signals of gauge mediated supersymmetry breaking at the LHC*, Phys. Lett. B **731** (2014) 7-12.
94. **The CMS Collaboration**, *Search for Flavour Changing Neutral Currents in single top events*, CMS-PAS-TOP-12-021.
95. **N. D. Christensen, P. de Aquino, N. Deutschmann, C. Duhr, B. Fuks, C. Garcia-Cely, O. Mattelaer, K. Mawatari, B. Oexl and Y. Takaesu**, *Simulating spin-3/2 particles at colliders*, Eur. Phys. J. C **73** (2013) 2580.
96. **A. Alloul, M. Frank, B. Fuks and M. Rausch de Traubenberg**, *Chargino and neutralino production at the Large Hadron Collider in left-right supersymmetric models*, JHEP **1310** (2013) 033.
97. **A. Alloul, M. Frank, B. Fuks and M. Rausch de Traubenberg**, *Doubly-charged particles at the Large Hadron Collider*, Phys. Rev. D **88** (2013) 075004.
98. **J.-L. Agram, J. Andrea, E. Conte, B. Fuks, D. Gelé and P. Lansonneur**, *Probing top anomalous couplings at the LHC with trilepton signatures in the single top mode*, Phys. Lett. B **725** (2013) 123-126.
99. **B. Fuks, M. Klasen, D. Lamprea and M. Rothering**, *Precision predictions for electroweak superpartner production at hadron colliders with Resumino*, Eur. Phys. J. C **73** (2013) 2480.
100. **A. Alloul, J. D'Hondt, K. de Causmaecker, B. Fuks and M. Rausch de Traubenberg**, *Automated mass spectrum generation for new physics*, Eur. Phys. J. C **73** (2013) 2325.
101. **S. Calvet, P. Gris, B. Fuks and L. Valéry**, *Searching for gluons in multitop events at a center-of-mass energy of 8 TeV*, JHEP **1304** (2013) 043.
102. **E. Conte, B. Fuks and G. Serret**, *MadAnalysis 5, a user-friendly framework for collider phenomenology*, Comput. Phys. Commun. **184** (2013) 222-256.
103. **B. Fuks, M. Klasen, D. Lamprea and M. Rothering**, *Gaugino production in proton-proton collisions at a center-of-mass energy of 8 TeV*, JHEP **1210** (2012) 081.
104. **N. D. Christensen, B. Fuks, J. Reuter and C. Speckner**, *Exploring compactified HEIDI models at the LHC*, arXiv:1204.6264 [hep-ph].
105. **N. D. Christensen, C. Duhr, B. Fuks, J. Reuter and C. Speckner**, *Introducing an interface between WHIZARD and FeynRules*, Eur. Phys. J. C **72** (2012) 1990.
106. **S. Kraml et al.**, *Searches for New Physics: Les Houches Recommendations for the Presentation of LHC Results*, Eur. Phys. J. C **72** (2012) 1976.
107. **The CDF Collaboration**, *Search for a dark matter candidate produced in association with a single top quark in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV*, Phys. Rev. Lett. **108** (2012) 201802.
108. **B. Fuks**, *Beyond the Minimal Supersymmetric Standard Model: from theory to phenomenology*, Int. J. Mod. Phys. A **27** (2012) 1230007.
109. **B. Fuks, B. Herrmann and M. Klasen**, *Phenomenology of anomaly-mediated supersymmetry breaking scenarios with non-minimal flavour violation*, Phys. Rev. D **86** (2012) 015002.
110. **C. Degrande, C. Duhr, B. Fuks, D. Grellscheid, O. Mattelaer and T. Reiter**, *UFO - The Universal FeynRules Output*, Comput. Phys. Commun. **183** (2012) 1201-1214.
111. **J. Andrea, B. Fuks and F. Maltoni**, *Monotops at the LHC*, Phys. Rev. D **84** (2011) 074025.
112. **J. Debove, B. Fuks and M. Klasen**, *Joint resummation for gaugino-pair production at hadron colliders*, Nucl. Phys. B **849** (2011) 64-79.
113. **C. Duhr and B. Fuks**, *A superspace module for the FeynRules package*, Comput. Phys. Commun. **182** (2011) 2404-2426.
-

114. N. D. Christensen, P. de Aquino, C. Degrande, C. Duhr, B. Fuks, M. Herquet, F. Maltoni and S. Schumann, *A comprehensive approach to new physics simulations*, Eur. Phys. J. **C71** (2011) 1541.
115. J. Debove, B. Fuks and M. Klasen, *Threshold resummation for gaugino-pair production at hadron colliders*, Nucl. Phys. B **842** (2011) 51-85.
116. J. Debove, B. Fuks and M. Klasen, *Transverse-momentum resummation for gaugino-pair production at hadron colliders*, Phys. Lett. B **688** (2010) 208-211.
117. B. Fuks, B. Herrmann and M. Klasen, *Flavour Violation in Gauge-Mediated Supersymmetry Breaking Models: Experimental Constraints and Phenomenology at the LHC*, Nucl. Phys. B **810** (2009) 266-299.
118. B. Fuks, J. J. van der Bij and Q. Xu, *High-dimensional Z' phenomenology at hadron colliders*, Phys. Rev. D **78** (2008) 074016.
119. J. Debove, B. Fuks and M. Klasen, *Gaugino-pair production in polarized and unpolarized hadron collisions*, Phys. Rev. D **78** (2008) 074020.
120. B. Fuks, M. Klasen, F. Ledroit, Q. Li and J. Morel, *Precision predictions for Z' -production at the CERN LHC: QCD matrix elements, parton showers, and joint resummation*, Nucl. Phys. B **797** (2008) 322-3390.
121. G. Bozzi, B. Fuks and M. Klasen, *Joint resummation for slepton pair production at hadron colliders*, Nucl. Phys. B **794** (2008) 46-60.
122. G. Bozzi, B. Fuks, B. Herrmann and M. Klasen, *Squarks and gaugino hadroproduction and decays in non-minimal flavour violation*, Nucl. Phys. B **787** (2007) 1-54.
123. G. Bozzi, B. Fuks and M. Klasen, *Threshold resummation for slepton-pair production at hadron colliders*, Nucl. Phys. B **777** (2007) 157-181.
124. G. Bozzi, B. Fuks and M. Klasen, *Transverse-momentum resummation for slepton-pair production at the LHC*, Phys. Rev. D **74** (2006) 015001.
125. G. Bozzi, B. Fuks and M. Klasen, *Non-diagonal and mixed squark production at hadron colliders*, Phys. Rev. D **72** (2005) 035016.
126. G. Bozzi, B. Fuks and M. Klasen, *Slepton production in polarized hadron collisions*, Phys. Lett. B **609** (2005) 339.
127. W. Abdallah *et al.*, *CEPC Technical Design Report - Accelerator*, arXiv:2312.14363 [physics.acc-ph].
128. P.J. Fox *et al.*, *TF08 Snowmass Report: BSM Model Building*, arXiv:2210.03075 [hep-ph].
129. F. Maltoni *et al.*, *TF07 Snowmass Report: Theory of Collider Phenomena*, arXiv:2210.02591 [hep-ph].
130. T. Bose *et al.*, *Report of the Topical Group on Physics Beyond the Standard Model at Energy Frontier for Snowmass 2021*, arXiv:2209.13128 [hep-ph].
131. A. Belyaev, R.S. Chivukula, B. Fuks, E.H. Simmons and X. Wang, *Single Vector-Like top quark production via chromomagnetic interactions at present and future hadron colliders - A Snowmass 2021 White Paper*, arXiv:2209.03333 [hep-ph].
132. J. Fiaschi, B. Fuks, M. Klasen and A. Neuwirth, *Associated squark-electroweak-ino production with NLO+NLL precision*, arXiv:2205.07298 [hep-ph]; contribution to the 56th Rencontres de Moriond on QCD and Hadronic Interactions.
133. A. Banerjee, D. B. Franzosi, G. Cacciapaglia, A. Deandrea, G. Ferretti, T. Flacke, B. Fuks, M. Kunkel, L. Panizzi, W. Porod and L. Schwarze, *Phenomenological aspects of composite Higgs scenarios: exotic scalars and vector-like quarks*, arXiv:2203.07270 [hep-ph], contribution to Snowmass 2021.
134. C. Borschensky, B. Fuks, A. Kulesza and D. Schwartzländer, *Precision predictions for scalar leptoquark pair production at the LHC*, PoS **EPS-HEP2021** (2022) 637, contribution to EPS-HEP 2021.
135. B. Fuks, P. Ko, S. J. Lee *et al.*, *Proceedings of the second MadAnalysis 5 workshop on LHC recasting in Korea*, Mod. Phys. Lett. A **36** (2021) 2102001.
136. W. Abdallah *et al.*, *Reinterpretation of LHC Results for New Physics: Status and Recommendations after Run 2*, SciPost Phys. **9** (2020) no.2, 022.
137. G. Brooijmans *et al.*, *Les Houches 2019 Physics at TeV Colliders: New Physics Working Group Report*, arXiv:2002.12220 [hep-ph].
138. E. Aslanides *et al.*, *Charting the European Course to the High-Energy Frontier*, arXiv:1912.13466 [hep-ex].
139. B. Fuks, F. Giacchino, L. Lopez-Honorez, M. H. G. Tytgat and J. Vandecasteele, *Strong dynamics and dark matter: investigating a minimal setup*, Frascati Phys. Ser. **70** (2019) 104-109; presented at LFC19 (Strong dynamics for physics within and beyond the Standard Model at LHC and Future Colliders).
140. L. Mason, A. S. Cornell, A. Deandrea and B. Fuks, *Bottom quark contributions to composite pseudo-scalar couplings at LHC*, Frascati Phys. Ser. **70** (2019) 110-115; presented at LFC19 (Strong dynamics for physics within and beyond the Standard Model at LHC and Future Colliders).
141. G. Durieux *et al.*, *Proposal for the validation of Monte Carlo implementations of the standard model effective field theory*, arXiv:1906.12310 [hep-ph].
142. J. Alimena *et al.*, *Searching for Long-Lived Particles beyond the Standard Model at the Large Hadron Collider*, arXiv:1903.04497 [hep-ex].

143. **B. Fuks**, *Cornering top-philic dark matter with colliders and cosmology: the importance of QCD corrections*, J. Phys. Conf. Ser. **1271** (2019) no.1, 012017.
 144. **P. Azzi et al.**, *Standard Model Physics at the HL-LHC and HE-LHC*, arXiv:1902.04070 [hep-ph].
 145. **X. Cid Vidal et al.**, *Beyond the Standard Model Physics at the HL-LHC and HE-LHC*, arXiv:1812.07831 [hep-ph].
 146. **A. Abada et al.**, *FCC-ee: The Lepton Collider : Future Circular Collider Conceptual Design Report Volume 2*, Eur. Phys. J. ST **228** (2019) no.2, 261.
 147. **A. Abada et al.**, *FCC-hh: The Hadron Collider : Future Circular Collider Conceptual Design Report Volume 3*, Eur. Phys. J. ST **228** (2019) no.4, 755.
 148. **A. Abada et al.**, *HE-LHC: The High-Energy Large Hadron Collider*, Eur. Phys. J. ST **228** (2019) no.5, 1109.
 149. **A. Abada et al.**, *FCC Physics Opportunities : Future Circular Collider Conceptual Design Report Volume 1*, Eur. Phys. J. C **79** (2019) no.6, 474.
 150. **B. Fuks et al.**, *Proceedings of the first MadAnalysis 5 workshop on LHC recasting in Korea*, arXiv:1806.02537 [hep-ph].
 151. **G. Brooijmans et al.**, *Les Houches 2017: Physics at TeV Colliders New Physics Working Group Report*, arXiv:1803.10379 [hep-ph].
 152. **C. Degrande, B. Fuks, K. Mawatari, K. Mimasu and V. Sanz**, *Electro-weak Higgs production in Standard Model effective field theory at next-to-leading order in QCD*, PoS DIS **2017** (2018) 298.
 153. **B. Fuks, M. Klasen and M. Sunder**, *Precision predictions for associated gluino-gaugino production at the LHC*, arXiv:1709.02680, contribution to the EPS Conference on High-Energy Physics (EPS-HEP 2017), Venice, Italy.
 154. **K. De Causmaecker, B. Fuks, B. Herrmann, F. Mahmoudi, B. O'Leary, W. Porod, S. Sekmen and N. Strobbe**, *Exploring the squark flavour structure of the MSSM*, PoS ICHEP **2016** (2016) 834, contribution to the 38th International Conference of High Energy Physics 2016 (ICHEP 2016).
 155. **D. de Florian et al.**, *Handbook of LHC Higgs Cross Sections: 4. Deciphering the Nature of the Higgs Sector*, arXiv:1610.07922 [hep-ph].
 156. **R. Contino et al.**, *Physics at a 100 TeV pp collider: Higgs and EW symmetry breaking studies*, arXiv:1606.09408 [hep-ph].
 157. **G. Brooijmans et al.**, *Les Houches 2015: Physics at TeV colliders - new physics working group report*, arXiv:1605.02684 [hep-ph].
 158. **B. Herrmann, K. De Causmaecker, B. Fuks, F. Mahmoudi, B. O'Leary, W. Porod, S. Sekmen and N. Strobbe**, *An MCMC study of general squark flavour mixing in the MSSM*, PoS EPS **-HEP2015** (2015) 576, contribution to the European Physical Society Conference on High Energy Physics 2015 (EPS-HEP 2015).
 159. **D. Abercrombie et al.**, *Dark Matter Benchmark Models for Early LHC Run-2 Searches: Report of the ATLAS/CMS Dark Matter Forum*, arXiv:1507.00966 [hep-ex].
 160. **B. Fuks**, *Opportunities with top quarks at future circular colliders*, arXiv:1412.1685 [hep-ph], contribution to the 7th International Workshop on Top Quark Physics (Top2014).
 161. **E. Conte, B. Dumont, B. Fuks and T. Schmitt**, *New features of MadAnalysis 5 for analysis design and reinterpretation*, J. Phys. Conf. Ser. **608** (2015) no.1, 012054, contribution to the 16th International Workshop on advanced computing and analysis techniques (ACAT 2014).
 162. **B. Fuks, M. Klasen, D. Lamprea and M. Rothering**, *Precision predictions for direct gaugino and slepton production at the LHC*, Nucl. Part. Phys. Proc. **273-275** (2016) 479, contribution to the 37th International Conference on High Energy Physics (ICHEP 2014).
 163. **G. Brooijmans, R. Contino, B. Fuks, F. Moortgat, P. Richardson et al.**, *Les Houches 2013: Physics at TeV Colliders: New Physics Working Group Report*, arXiv:1405.1617 [hep-ph].
 164. **J. Butterworth, G. Dissertori, S. Dittmaier, D. de Florian, N. Glover et al.**, *Les Houches 2013: Physics at TeV Colliders: Standard Model Working Group Report*, arXiv:1405.1067 [hep-ph].
 165. **E. Conte and B. Fuks**, *MadAnalysis 5: status and new developments*, J. Phys. Conf. Ser. **523** (2014) 012032, contribution to the 15th International Workshop on advanced computing and analysis techniques (ACAT 2013).
 166. **A. Alloul, N. D. Christensen, C. Degrande, C. Duhr and B. Fuks**, *New developments in FeynRules*, J. Phys. Conf. Ser. **523** (2014) 01, contribution to the 15th International Workshop on advanced computing and analysis techniques (ACAT 2013).
 167. **B. Fuks, M. Klasen, D. Lamprea and M. Rothering**, *QCD resummation in the framework of supersymmetry*, arXiv:1305.1645 [hep-ph], contribution to the 48th Rencontres de Moriond on QCD and Hadronic Interactions.
 168. **G. Brooijmans et al.**, *Les Houches 2011: Physics at TeV Colliders New Physics Working Group Report*, arXiv:1203.1488 [hep-ph].
 169. **J. M. Butterworth et al.**, *The tools and Monte Carlo working group summary report from the Les Houches 2009 Workshop on TeV Colliders*, arXiv:1003.1643 [hep-ph].
 170. **B. Fuks**, *Precision predictions for Z' production at the LHC*, arXiv:0805.2004 [hep-ph], presented at 43rd Rencontres de Moriond on QCD and Hadronic Interactions.
-

171. **T. Lari et al.**, *Collider aspects of flavour physics at high Q* , Eur. Phys. J. C **57** (2008) 183, report of Working Group 1 of the CERN Workshop *Flavour in the era of the LHC*.
172. **B. Fuks**, *Transverse-momentum, threshold and joint resummations for slepton pair production at hadron colliders*, *Karlsruhe 2007, SUSY 2007* (2008) 276, contribution to the proceedings of the 15th International Conference on Supersymmetry and the Unification of Fundamental Interactions (SUSY07).
173. **B. Fuks**, *Slepton pair production at hadron colliders*, AIP Conf. Proc. **903** (2007) 165-168, contribution to the proceedings of the 14th International Conference on Supersymmetry and the Unification of Fundamental Interactions (SUSY06).

Scientific divulgation

174. **B. Fuks**, *Hypernuclei studies with the method of hyperspherical coordinates* (in French), Nouvelles entre A. Ir. Br. **1875** (2005) 008.
-