

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. B. Fuks, K. Hagiwara, K. Ma and Y. J. Zheng, *Simulating toponium formation signals at the LHC*, arXiv:2411.18962 [hep-ph] (submitted to EPJC).
4. A. S. Cornell, B. Fuks, M. D. Goodsell and A. M. Ncube, *Improving smuon searches with Neural Networks*, arXiv:2411.04526 [hep-ph] (submitted to EPJC).
5. M. Frank, B. Fuks, S. K. Garg, C. Majumdar, P. Poulose and S. Senapati, *Leptonic probes of Alternative Left-Right Symmetric Models*, arXiv:2409.15218 [hep-ph] (submitted to PRD).
6. B. Fuks, M. D. Goodsell and T. Murphy, *Monojets from compressed weak frustrated dark matter*, arXiv:2409.03014 [hep-ph] (submitted to PRD).
7. B. Fuks, F. Marugas, R. Ruiz and A. Szantendera, *Hard processes in multi-TeV ion collisions*, arXiv:2405.19399 [hep-ph] (submitted to PRD).
8. L. Darmé, B. Fuks, H. L. Li, M. Maltoni, O. Mattelaer and J. Touché, *Boosting Beyond: A Novel Approach to Probing Top-Philic Resonances at the LHC*, arXiv:2404.14482 [hep-ph] (submitted to PRD).
9. D. Agin, B. Fuks, M. D. Goodsell and T. Murphy, *Seeking a coherent explanation of LHC excesses for compressed spectra*, Eur. Phys. J. C **84** (2024) 1218.
10. A. Feike, J. Fiaschi, B. Fuks, M. Klasen and A. Puck Neuwirth, *Combination and reinterpretation of LHC SUSY searches*, JHEP **07** (2024) 122.
11. P. Dehghani, M. Frank and B. Fuks, *Collider imprint of vector-like leptons in light of anomalous magnetic moment and neutrino data*, Eur. Phys. J. C **84** (2024) 1284.
12. M. Frank, B. Fuks, S.K. Garg and P. Poulose, *Flavour-changing top quark decays in the alternative left-right model*, Phys. Lett. B **850** (2024) 138548.
13. M. Frank, B. Fuks, A. Jueid, S. Moretti and Ö. Özdal, *A novel search strategy for right-handed charged gauge bosons at the Large Hadron Collider*, JHEP **02** (2024) 150.
14. D. Agin, B. Fuks, M. D. Goodsell and T. Murphy, *Monojets reveal overlapping excesses for light compressed higgsinos*, Phys. Lett. B **853** (2024) 138597.
15. 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.
16. 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.
17. 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.
18. 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.
19. 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.
20. 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.
21. 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.
22. 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.
23. J.Y. Araz, A. Buckley, B. Fuks, H. Reyes-Gonzalez, W. Waltenberger, S.L. Williamson and J. Yellen, *Strength in numbers: optimal and scalable combination of LHC new-physics searches*, SciPost Phys. **14** (2023) 077.
24. 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.
25. 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.
26. 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.
27. J. Fiaschi, B. Fuks, M. Klasen and A. Neuwirth, *Soft gluon resummation for associated squark-electroweakino production at the LHC*, JHEP **06** (2022) 130.

28. 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.
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 31. 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.
 32. 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.
 33. 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.
 34. 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.
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 36. A. S. Cornell, A. Deandrea, T. Flacke, B. Fuks and L. Mason, *Contact interactions and top-philic scalar dark matter*, JHEP **07** (2021) 026.
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 42. 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.
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