# Felix Kling

## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3880200/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 47 papers | 2,217 citations | 201575 27 h-index | 214721 47 g-index |
| 47 all docs | 47 docs citations | 47 times ranked | 5335 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Machine learning the Higgs boson-top quark <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>C</mml:mi><mml:mi>P</mml:mi></mml:math> phase. Physical Review D, 2022, 105, . | 1.6 | 12 |
| 2 | Hadrophilic dark sectors at the Forward Physics Facility. Physical Review D, 2022, 105, . | 1.6 | 11 |
| 3 | An explanation of the muon puzzle of ultrahigh-energy cosmic rays and the role of the Forward Physics Facility for model improvement. Journal of High Energy Astrophysics, 2022, 34, 19-32. | 2.4 | 8 |
| 4 | Probing neutrino-portal dark matter at the Forward Physics Facility. Physical Review D, 2022, 105, . | 1.6 | 9 |
| 5 | The tracking detector of the FASER experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1034, 166825. | 0.7 | 10 |
| 6 | The Forward Physics Facility: Sites, experiments, and physics potential. Physics Reports, 2022, 968, 1-50. | 10.3 | 57 |
| 7 | Neutral current neutrino interactions at <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>FASER</mml:mi><mml:mi>Î½</mml:mi></mml:mrow></mml:math>. Physical Review D, 2021, 103, . | 1.6 | 28 |
| 8 | New solutions for rotating boson stars. Physical Review D, 2021, 103, . | 1.6 | 5 |
| 9 | Discovering dark matter at the LHC through its nuclear scattering in far-forward emulsion and liquid argon detectors. Physical Review D, 2021, 104, . | 1.6 | 15 |
| 10 | Looking forward to millicharged dark sectors at the LHC. Physical Review D, 2021, 104, . | 1.6 | 24 |
| 11 | Forward experiment sensitivity estimator for the LHC and future hadron colliders. Physical Review D, 2021, 104, . | 1.6 | 36 |
| 12 | First neutrino interaction candidates at the LHC. Physical Review D, 2021, 104, . | 1.6 | 32 |
| 13 | Forward neutrino fluxes at the LHC. Physical Review D, 2021, 104, . | 1.6 | 35 |
| 14 | Potential of CMS as a high-energy neutrino scattering experiment. Physical Review D, 2021, 104, . | 1.6 | 4 |
| 15 | The trigger and data acquisition system of the FASER experiment. Journal of Instrumentation, 2021, 16, P12028. | 0.5 | 13 |
| 16 | Physics beyond colliders at CERN: beyond the Standard Model working group report. Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 010501. | 1.4 | 254 |
| 17 | Extending the reach of FASER, MATHUSLA, and SHiP towards smaller lifetimes using secondary particle production. Physical Review D, 2020, 101, . | 1.6 | 35 |
| 18 | Effective LHC measurements with matrix elements and machine learning. Journal of Physics: Conference Series, 2020, 1525, 012022. | 0.3 | 8 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Constraining effective field theories with machine learning. EPJ Web of Conferences, 2020, 245, 06026. | 0.1 | 2 |
| 20 | Probing light gauge bosons in tau neutrino experiments. Physical Review D, 2020, 102, . | 1.6 | 31 |
| 21 | Looking forward to test the KOTO anomaly with FASER. Physical Review D, 2020, 102, . | 1.6 | 21 |
| 22 | Improving inference with matrix elements and machine learning. International Journal of Modern Physics A, 2020, 35, 2041008. | 0.5 | 4 |
| 23 | MadMiner: Machine Learning-Based Inference for Particle Physics. Computing and Software for Big Science, 2020, 4, 1. | 1.3 | 48 |
| 24 | Detecting and studying high-energy collider neutrinos with FASER at the LHC. European Physical Journal C, 2020, 80, 1. | 1.4 | 79 |
| 25 | 2HDM neutral scalars under the LHC. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 30 |
| 26 | Searching for long-lived particles beyond the Standard Model at the Large Hadron Collider. Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 090501. | 1.4 | 133 |
| 27 | FASERâ€™s physics reach for long-lived particles. Physical Review D, 2019, 99, . | 1.6 | 205 |
| 28 | Exotic Higgs decays in Type-II 2HDMs at the LHC and future 100 TeV hadron colliders. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 20 |
| 29 | Inelastic dark matter at the LHC lifetime frontier: ATLAS, CMS, LHCb, CODEX-b, FASER, and MATHUSLA. Physical Review D, 2019, 99, . | 1.6 | 83 |
| 30 | Benchmarking simplified template cross sections in W H production. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 24 |
| 31 | ForwArd Search ExpeRiment at the LHC. Physical Review D, 2018, 97, . | 1.6 | 250 |
| 32 | Profiles of boson stars with self-interactions. Physical Review D, 2018, 97, . | 1.6 | 22 |
| 33 | Dark Higgs bosons at the ForwArd Search ExpeRiment. Physical Review D, 2018, 97, . | 1.6 | 82 |
| 34 | Heavy neutral leptons at FASER. Physical Review D, 2018, 97, . | 1.6 | 95 |
| 35 | Axionlike particles at FASER: The LHC as a photon beam dump. Physical Review D, 2018, 98, . | 1.6 | 86 |
| 36 | Higgs boson pair production at future hadron colliders: From kinematics to dynamics. Physical Review D, 2018, 97, . | 1.6 | 54 |

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|---|---|---|---|
| 37 | Better Higgs- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>C</mml:mi><mml:mi>P</mml:mi></mml:mrow></mml:math> tests through information geometry. Physical Review D, 2018, 97, . | 1.6 | 35 |
| 38 | Maximizing the significance in Higgs boson pair analyses. Physical Review D, 2017, 95, . | 1.6 | 36 |
| 39 | Towards an analytic construction of the wavefunction of boson stars. Physical Review D, 2017, 96, . | 1.6 | 18 |
| 40 | Better Higgs boson measurements through information geometry. Physical Review D, 2017, 95, . | 1.6 | 30 |
| 41 | Unblinding the dark matter blind spots. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 32 |
| 42 | Anatomy of exotic Higgs decays in 2HDM. Journal of High Energy Physics, 2016, 2016, 1. | 1.6 | 47 |
| 43 | Light charged Higgs bosons to AW/HW via top decay. Journal of High Energy Physics, 2015, 2015, 1. | 1.6 | 38 |
| 44 | Searches for non-SM heavy Higgses at a 100ÂTeV pp collider. International Journal of Modern Physics A, 2015, 30, 1544005. | 0.5 | 6 |
| 45 | Exotic decays of a heavy neutral Higgs through HZ/AZ channel. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 21 |
| 46 | Charged Higgs search via AW Â± /HW Â± channel. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 48 |
| 47 | Constraining type II 2HDM in light of LHC Higgs searches. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 41 |