## **Publication List – Lucien Heurtier**

## **Preprint Articles**

[1] K. R. Dienes, L. Heurtier, F. Huang, D. Kim, T. M. P. Tait, and B. Thomas, *Primordial Black Holes Place the Universe in Stasis*, Dec 2022 [ArXiv:2212.01369]

## **Peer Reviewed Journal Articles**

- [1] A. Ghoshal, Y. Gouttenoire, L. Heurtier, P. Simakachorn, *Primordial Black Hole Archaeology with Gravitational Waves from Cosmic Strings*, Apr 2023, J. High Energ. Phys. 08 (2023) 196 [ArXiv:2304.04793]
- [2] R. Heighton, L. Heurtier, M. Spannowsky, *Hunting for Neutral Leptons with Ultra-High-Energy Cosmic Rays*, Mar 2023 [ArXiv:2303.11352] *Accepted for publication by PRD*
- [3] A. Cheeck, L. Heurtier, Y. F. Perez-Gonzalez, and J. Turner, Evaporation of Primordial Black Holes in the Early Universe: Mass and Spin Distributions, Dec 2022 [ArXiv:2212.03878] Accepted for publication by PRD
- [4] L. Heurtier, A. Moursy, L. Wacquez, Cosmological Imprints of SUSY Breaking in Models of Sgoldstinoless Non-Oscillatory Inflation, Jul 2022, JCAP 03 (2023) 020 [ArXiv:2207.11502]
- [5] A. Ghoshal, L. Heurtier, A. Paul, Signatures of Non-thermal Dark Matter with Kination and Early Matter Domination: Gravitational Waves versus Laboratory Searches, Aug 2022, J. High Energ. Phys. 2022, 105 (2022) [ArXiv:2208.01670]
- [6] A. Cheek, **L. Heurtier**, Y. F. Perez-Gonzalez, J. Turner, *Redshift Effects in Particle Production from Kerr Primordial Black Holes*, Jul 2022, **Phys. Rev. D** 106 (2022) 10, 103012 [ArXiv:2207.09462]
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- [10] L. Heurtier, F. Huang, and T.M.P. Tait, Resurrecting Low-Mass Axion Dark Matter Via a Dynamical QCD Scale, Apr. 2021, J. High Energ. Phys. 12 (2021) 216, [arXiv:2104.13390].
- [11] **L. Heurtier**, H.-L. Li, H. Song, S. Su, W. Su, *Precision Higgs Couplings in Neutral Naturalness Models: an Effective Field Theory Approach*, Jul 2020. **J. High Energ. Phys.** 02 (2021) 234 [arXiv:2007.15021].
- [12] E. Dudas, L. Heurtier, K. Olive, M. Pierre, and Y. Mambrini, *A Model of Metastable EeV Dark Matter*, Mar 2020. Phys. Rev. D 101 (2020) 11, 115029 [arXiv:2003.02846].
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- T. Coudarchet, L. Heurtier, H. Partouche, Spontaneous Freeze Out of Dark Matter, Published in: PoS CORFU2019 (2020) 136 - Contribution to: CORFU2019, 136. Dec 21, 2019 [arXiv:1912.10276]
- 2. **L. Heurtier**, *Extra U(1)*, *effective operators*, *anomalies and dark matter*, Journées de Rencontre des Jeunes Chercheurs 2013: Proceedings.