

# Publication List

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- [1] “Long-Lived-Particle Signals of a Composite Hidden Sector through the Neutrino Portal,”  
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  - [2] “Primordial Dirac Leptogenesis,”  
A. Ahmed, J. P. Garcés and M. Lindner,  
[arXiv:2511.03794](https://arxiv.org/abs/2511.03794).
  - [3] “Radiative symmetry breaking with a scale invariant seesaw mechanism,”  
A. Ahmed, J. P. Garcés and M. Lindner,  
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  - [4] “General form of effective operators from hidden sectors,  
A. Ahmed, Z. Chacko, I. Flood, C. Kilic and S. Najjari,  
” *JHEP* **05** (2025) 167 [[arXiv:2412.15067](https://arxiv.org/abs/2412.15067)].
  - [5] “Conformal little Higgs models,”  
A. Ahmed, M. Lindner and P. Saake,  
*Phys. Rev. D* **109** (2024) no.7, 075041 [[arXiv:2309.07845](https://arxiv.org/abs/2309.07845)].
  - [6] “Composite Dark Matter and Neutrino Masses from a Light Hidden Sector,  
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  - [7] “*Higgs boson induced reheating and ultraviolet frozen-in dark matter*”,  
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  - [8] “*Higgs Boson-Induced Reheating and Dark Matter Production*”,  
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  - [9] “*Ultraviolet freeze-in dark matter through the dilaton portal*”,  
A. Ahmed and S. Najjari  
*Phys. Rev. D* **107** (2023) no.5, 055020, [[arXiv:2112.14261](https://arxiv.org/abs/2112.14261)].
  - [10] “*Implications of time-dependent inflaton decay on reheating and dark matter production*”,  
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  - [11] “*Gravitational production of vector dark matter*”,  
A. Ahmed, B. Grzadkowski and A. Socha,  
*JHEP* **08** (2020), 059, [[arXiv:2005.01766](https://arxiv.org/abs/2005.01766)].
  - [12] “*A Minimal Model for Neutral Naturalness and pseudo-Nambu-Goldstone Dark Matter*”,  
A. Ahmed, S. Najjari and C. B. Verhaaren  
*JHEP* **06** (2020) 007, [[arXiv:2003.08947](https://arxiv.org/abs/2003.08947)].
  - [13] “*A light dilaton at the LHC*”,  
A. Ahmed, A. Mariotti and S. Najjari  
*JHEP* **05** (2020) 093, [[arXiv:1912.06645](https://arxiv.org/abs/1912.06645)].
  - [14] “*Dilaton portal in strongly interacting twin Higgs models*”,  
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  - [15] “*Dynamical origin of fermion bulk masses in a warped extra dimension*”,  
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  - [16] “*Heavy Higgs of the Twin Higgs Models*”,  
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- [17] “*Multi-Component Dark Matter: the vector and fermion case*”,  
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- [18] “*Clockwork Goldstone Bosons*”,  
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- [19] “*Implications of the absence of high-mass radion signals*”,  
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- [24] “*Fourth-generation standard model imprints in  $B \rightarrow K^* \ell^+ \ell^-$  decays with polarized  $K^*$* ”,  
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- [25] “*Comparative Study of  $B_c \rightarrow D_s^* \ell^+ \ell^-$  Decays in Standard Model and Supersymmetric Models*”,  
 A. Ahmed, I. Ahmed, M. A. Paracha, M. Junaid, A. Rehman and M. J. Aslam,  
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- [26] “*Analysis of  $B_c \rightarrow D_s^* \ell^+ \ell^-$  in the Standard Model Beyond Third Generation*”,  
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 arXiv:1107.5694.
- [27] “ *$K_1(1270)$ - $K_1(1400)$  mixing and the fourth generation SM effects in  $B \rightarrow K_1 \ell^+ \ell^-$  decays*”,  
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## Conference Proceedings

- [28] “*Production of Purely Gravitational Vector Dark Matter*”,  
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- [29] “*Vector-Fermion Dark Matter Model*”,  
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