

Publication List

Aqeel Ahmed

@INSPIRE: inspirehep.net/authors/1091402

-
- [1] “Long-Lived-Particle Signals of a Composite Hidden Sector through the Neutrino Portal,”
A. Ahmed, Z. Chacko, N. Desai, S. Doshi, C. Kilic, S. Najjari and R. P. R. Sudha,
[arXiv:2512.09046](https://arxiv.org/abs/2512.09046).
 - [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,
Phys. Rev. D **112** (2025) no.3, 035026 [[arXiv:2504.13243](https://arxiv.org/abs/2504.13243)].
 - [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,
A. Ahmed, Z. Chacko, N. Desai, S. Doshi, C. Kilic and S. Najjari,
” *JHEP* **07** (2024) 260 [[arXiv:2305.09719](https://arxiv.org/abs/2305.09719)].
 - [7] “*Higgs boson induced reheating and ultraviolet frozen-in dark matter*”,
A. Ahmed, B. Grzadkowski and A. Socha,
JHEP **02** (2023), 196, [[arXiv:2207.11218](https://arxiv.org/abs/2207.11218)].
 - [8] “*Higgs Boson-Induced Reheating and Dark Matter Production*”,
A. Ahmed, B. Grzadkowski and A. Socha,
Symmetry **14** (2022) no.2, 306.
 - [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*”,
A. Ahmed, B. Grzadkowski and A. Socha,
Phys. Lett. B **831** (2022), 137201, [[arXiv:2111.06065](https://arxiv.org/abs/2111.06065)].
 - [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*”,
A. Ahmed, B. M. Dillon and S. Najjari
JHEP **02** (2020) 124 , [[arXiv:1911.05085](https://arxiv.org/abs/1911.05085)].
 - [15] “*Dynamical origin of fermion bulk masses in a warped extra dimension*”,
A. Ahmed, A. Carmona, J. Castellano Ruiz, Y. Chung and M. Neubert
JHEP **08** (2019) 045, [[arXiv:1905.09833](https://arxiv.org/abs/1905.09833)].
 - [16] “*Heavy Higgs of the Twin Higgs Models*”,
A. Ahmed,
JHEP **02** (2018) 048, [[arXiv:1711.03107](https://arxiv.org/abs/1711.03107)].

- [17] “*Multi-Component Dark Matter: the vector and fermion case*”,
 A. Ahmed, M. Duch, B. Grzadkowski and M. Iglicki,
Eur. Phys. J. **C78**, no.11 (2017) 905, [arXiv:1710.01853].
- [18] “*Clockwork Goldstone Bosons*”,
 A. Ahmed and B. M. Dillon,
Phys. Rev. **D96** no. 11, (2017) 115031, [arXiv:1612.04011].
- [19] “*Implications of the absence of high-mass radion signals*”,
 A. Ahmed, B. M. Dillon, B. Grzadkowski, J. F. Gunion, Y. Jiang,
Phys. Rev. **D95** no. 9, (2017) 095019, [arXiv:1512.05771].
- [20] “*Higgs Dark Matter from a Warped Extra-Dimension – the truncated-inert-doublet model*”,
 A. Ahmed, B. Grzadkowski, J. F. Gunion and Y. Jiang,
JHEP **10** (2015) 033, [arXiv:1504.03706].
- [21] “*Generalized Randall-Sundrum model with a single thick brane*”,
 A. Ahmed, L. Dulny and B. Grzadkowski,
Eur. Phys. J. **C74** (2014) 2862, [arXiv:1312.3577].
- [22] “*Thick-Brane Cosmology*”,
 A. Ahmed, B. Grzadkowski and J. Wudka,
JHEP **04** (2014) 061, [arXiv:1312.3576].
- [23] “*Brane modeling in warped extra-dimension*”,
 A. Ahmed and B. Grzadkowski,
JHEP **01** (2013) 177, [arXiv:1210.6708].
- [24] “*Fourth-generation standard model imprints in $B \rightarrow K^* \ell^+ \ell^-$ decays with polarized K^** ”,
 A. Ahmed, I. Ahmed, M. J. Aslam, M. Junaid, M. A. Paracha and A. Rehman,
Phys. Rev. **D85** (2012) 034018, [arXiv:1110.4259].
- [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,
 arXiv:1108.1058.
- [26] “*Analysis of $B_c \rightarrow D_s^* \ell^+ \ell^-$ in the Standard Model Beyond Third Generation*”,
 I. Ahmed, M. A. Paracha, M. Junaid, A. Ahmed, A. Rehman and M. J. Aslam,
 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*”,
 A. Ahmed, I. Ahmed, M. A. Paracha and A. Rehman,
Phys. Rev. **D84** (2011) 033010, [arXiv:1105.3887].

Conference Proceedings

- [28] “*Production of Purely Gravitational Vector Dark Matter*”,
 A. Ahmed, B. Grzadkowski and A. Socha,
Acta Phys. Polon. **B50** (2019) 1809.
- [29] “*Vector-Fermion Dark Matter Model*”,
 A. Ahmed, M. Duch, B. Grzadkowski and M. Iglicki,
Acta Phys. Polon. **B48** no. 12, (2017) 2405.
- [30] “*Higgs Dark Matter from a Warped Extra-Dimension*”,
 A. Ahmed, B. Grzadkowski, J. F. Gunion and Y. Jiang,
PoS PLANCK **2015** 002, [arXiv:1510.05722].
- [31] “*Radius stabilization and dark matter with a bulk Higgs in warped extra dimension*”,
 A. Ahmed, B. Grzadkowski, J. F. Gunion and Y. Jiang,
Acta Phys. Polon. **B46** no. 11, (2015) 2205, [arXiv:1510.04116].
- [32] “*Modeling branes in warped extra-dimension*”,
 A. Ahmed, L. Dulny and B. Grzadkowski,
Acta Phys. Polon. **B44** no. 11, (2013) 2381.