BRADLEY J KAVANAGH

Publication List

My full listing on INSPIRE-HEP is available here.

1. *Prospects for determining the particle/antiparticle nature of WIMP dark matter with direct detection experiments*
   B. J. Kavanagh, F. S. Queiroz, W. Rodejohann, C. E. Yaguna
   arXiv:1706.07819
   Code available here

2. *Probing Leptophilic Dark Sectors with Hadronic Processes*
   F. D'Eramo, **B. J. Kavanagh**, P. Panci
   Phys. Lett. B 771 (2017) 339-348, arXiv:1702.00016

3. *Signatures of Earth-scattering in the direct detection of Dark Matter*
   B. J. Kavanagh, R. Catena, C. Kouvaris
   JCAP 01 (2017) 012, arXiv:1611.05453
   Code available here

4. *Reconstructing the three-dimensional local dark matter velocity distribution*
   B. J. Kavanagh, C. A. J. O'Hare
   Phys. Rev. D 94, 123009 (2016), arXiv:1609.08630

5. *You can hide but you have to run: direct detection with vector mediators*
   F. D'Eramo, **B. J. Kavanagh**, P. Panci
   JHEP 08 (2016) 111, arXiv:1605.04917
   Code available here

6. *A review of the discovery reach of directional Dark Matter detection*
   F. Mayet, A. M. Green, J. B. R. Battat, J. Billard, N. Bozorgnia, G. B. Gelmini, P. Gondolo, **B. J. Kavanagh** , S. K. Lee, D. Loomba J. Monroe, B. Morgan, C. A. J. O'Hare, A. H. G. Peter, N. S. Phan, S. E. Vahsen
   Physics Reports 627 (2016) 1, arXiv:1602.03781
   Highlighted in Physics Reports

7. *Re-examining the significance of the 750 GeV diphoton excess at ATLAS*
   B. J. Kavanagh
   arXiv pre-print (2016), arXiv:1601.07330
   Featured on Syymmetries and Résonaances

8. *New directional signatures from the non-relativistic effective field theory of dark matter*
   B. J. Kavanagh
   Phys. Rev. D 92, 023513 (2015), arXiv:1505.07406

9. *Discretising the velocity distribution for directional dark matter experiments*
   B. J. Kavanagh
   JCAP 07 (2015) 019, arXiv:1502.04224

10. *Probing WIMP particle physics and astrophysics with direct detection and neutrino telescope data*
    B. J. Kavanagh, M. Fornasa, A. M. Green
    Phys. Rev. D. 91, 103533 (2015), arXiv:1410.8051

11. *Parametrizing the local dark matter speed distribution: a detailed analysis*
    B. J. Kavanagh
    Phys. Rev. D 89, 085026 (2014), arXiv:1312.1852

12. *WIMP physics with ensembles of direct-detection experiments*
    A. H. G. Peter, V. Gluscevic, A. M. Green, **B. J. Kavanagh**, S. K. Lee
    Phys. Dark Universe 5-6 (2014) 45-74, arXiv:1310.7039

13. *Model independent determination of the dark matter mass from direct detection experiments*
B. J. Kavanagh and A. M. Green
Phys. Rev. Lett. 111, 031302 (2013), arXiv:1303.6868
Featured in Phys.org

14. *Improved determination of the WIMP mass from direct detection data*
B. J. Kavanagh and A. M. Green
Phys. Rev. D 86, 065027 (2012), arXiv:1207.2039