Publication List

My full listing on INSPIRE-HEP is available here.

1. Signatures of Earth-scattering in the direct detection of Dark Matter B. J. Kavanagh, R. Catena, C. Kouvaris

In preparation

 $2. \ Reconstructing \ the \ three-dimensional \ local \ dark \ matter \ velocity \ distribution$

B. J. Kavanagh, C. A. J. O'Hare

Submitted to Phys. Rev. D, arXiv:1609.08630

3. 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

- 4. 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

5. 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

6. 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

7. Discretising the velocity distribution for directional dark matter experiments

B. J. Kavanagh

JCAP 07 (2015) 019, arXiv:1502.04224

8. 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

9. Parametrizing the local dark matter speed distribution: a detailed analysis

B. J. Kavanagh

Phys. Rev. D 89, 085026 (2014), arXiv:1312.1852

10. 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

11. 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

12. 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