

DarkSide group publications (July 2017- December 2019)

- [1] **DarkSide** Collaboration, P. Agnes et al., “Measurement of the ion fraction and mobility of ^{218}Po produced in ^{222}Rn decays in liquid argon”, *JINST* **14** (2019), no. 11, P11018, [arXiv:1907.09332](#). doi:10.1088/1748-0221/14/11/P11018.
- [2] **DarkSide** Collaboration, P. Agnes et al., “Constraints on Sub-GeV Dark-Matter?Electron Scattering from the DarkSide-50 Experiment”, *Phys. Rev. Lett.* **121** (2018), no. 11, 111303, [arXiv:1802.06998](#). doi:10.1103/PhysRevLett.121.111303.
- [3] **DarkSide** Collaboration, P. Agnes et al., “Low-Mass Dark Matter Search with the DarkSide-50 Experiment”, *Phys. Rev. Lett.* **121** (2018), no. 8, 081307, [arXiv:1802.06994](#). doi:10.1103/PhysRevLett.121.081307.
- [4] **DarkSide** Collaboration, P. Agnes et al., “DarkSide-50 532-day Dark Matter Search with Low-Radioactivity Argon”, *Phys. Rev.* **D98** (2018), no. 10, 102006, [arXiv:1802.07198](#). doi:10.1103/PhysRevD.98.102006.
- [5] **DarkSide** Collaboration, P. Agnes et al., “Electroluminescence pulse shape and electron diffusion in liquid argon measured in a dual-phase TPC”, *Nucl. Instrum. Meth.* **A904** (2018) 23–34, [arXiv:1802.01427](#). doi:10.1016/j.nima.2018.06.077.
- [6] P. Agnes et al., “Measurement of the liquid argon energy response to nuclear and electronic recoils”, *Phys. Rev.* **D97** (2018), no. 11, 112005, [arXiv:1801.06653](#). doi:10.1103/PhysRevD.97.112005.
- [7] **DarkSide** Collaboration, P. Agnes et al., “The Electronics, Trigger and Data Acquisition System for the Liquid Argon Time Projection Chamber of the DarkSide-50 Search for Dark Matter”, *JINST* **12** (2017), no. 12, P12011, [arXiv:1707.09889](#). doi:10.1088/1748-0221/12/12/P12011.