


Personal Information

Full name	Dorri Halbertal	
Current position	PhD student at the superconductivity lab of Prof. Eli Zeldov	
Organization	Weizmann Institute of Science	
Country	Israel	

Short Biography

BSc in Physics and Mathematics from the Hebrew University in Jerusalem.

MSc in Physics from the Hebrew University in Jerusalem in theoretical astrophysics.

Currently at the last year of PhD studies at the Condensed Matter Physics department at the Weizmann Institute of Science. Work focuses on scanning nano-SQUID magnetic and thermal microscopy.

Publications:

1. Vasyukov, D., Anahory, Y., Embon, L., Halbertal, D., Cuppens, J., Neeman, L., Finkler, A., Segev, Y., Myasoedov, Y., Rappaport, M.L. and Huber, M.E., 2013. A scanning superconducting quantum interference device with single electron spin sensitivity. *Nature nanotechnology*, 8(9), pp.639-644.
2. Anahory, Y., Reiner, J., Embon, L., Halbertal, D., Yakovenko, A., Myasoedov, Y., Rappaport, M.L., Huber, M.E. and Zeldov, E., 2014. Three-Junction SQUID-on-Tip with Tunable In-Plane and Out-of-Plane Magnetic Field Sensitivity. *Nano letters*, 14(11), pp.6481-6487.
3. Sapir, N. and Halbertal, D., 2014. Numeric spectral radiation hydrodynamic calculations of supernova shock breakouts. *The Astrophysical Journal*, 796(2), p.145.
4. Embon, L., Anahory, Y., Suhov, A., Halbertal, D., Cuppens, J., Yakovenko, A., Uri, A., Myasoedov, Y., Rappaport, M.L., Huber, M.E. and Gurevich, A., 2015. Probing dynamics and pinning of single vortices in superconductors at nanometer scales. *Scientific reports*, 5.
5. Halbertal D., Cuppens J., Ben Shalom M. , Embon L., Shadmi N., Anahory Y., Naren HR, Sarkar J., Uri A., Myasoedov Y., Levitov L, Joselevich E., Geim A. K., Zeldov E., Nanoscale thermal imaging of dissipation in quantum systems, under review at *Nature* (2016).