

## **Prof. Eli Zeldov – CV**

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Eli Zeldov is Physics Professor at the Weizmann Institute of Science and holds the David and Inez Myers Chair of Condensed Matter Physics. He received his B.Sc. and Ph.D. in Electrical Engineering from the Technion and carried out his postdoc at IBM, Yorktown Heights. He was a Visiting Professor at Bell Labs and Stanford University.

The current research interests of Prof. Zeldov include vortex dynamics in superconductors, magnetism in low dimensional systems, dissipation in quantum states of matter, and van der Waals and moiré materials. In recent years he has focused on development of new scanning probe microscopy tools for study of quantum materials and topological states of matter. In particular, he has developed superconducting quantum interference device on a tip that provides nanoscale scanning magnetic imaging with single electron spin sensitivity and cryogenic thermal imaging and spectroscopy that allows imaging dissipation arising from flowing electrons scattered off a single atomic defect in ultraclean atomically thin materials.

Prof. Zeldov is the Head of the Joseph H. and Belle R. Braun Center for Submicron Research and served as the Head of the Department of Condensed Matter Physics. Prof. Zeldov received three ERC Advanced Grants and is the recipient of the Kamerlingh Onnes Prize, Abrikosov Prize, and the Weizmann Prize for Exact Sciences.