

Professor Abraham Bers

Professor of Electrical Engineering Emeritus

BIOGRAPHY

Professor Abraham Bers is a principal investigator in the Research Laboratory of Electronics (RLE) at the Massachusetts Institute of Technology (MIT). He received the B.S. from the University of California, Berkeley, in 1953, and the S.M. and Sc.D. from MIT in 1955 and 1959 respectively, when he joined the MIT faculty in the Department of Electrical Engineering and Computer Science.

Professor Abraham Bers studies nonlinear wave theory in plasmas related to radio-frequency heating and current generation. He has modeled and analyzed problems that involve coupling, propagation, energy, and momentum deposition, as well as induced transport in the interaction of electromagnetic fields with plasmas. Studies in radio-frequency current drive, which Professor Bers pioneered with his students, also indicate its possible use in stabilizing certain magnetohydrodynamic instabilities that are driven by ohmic currents, and may lead to new current drive applications.