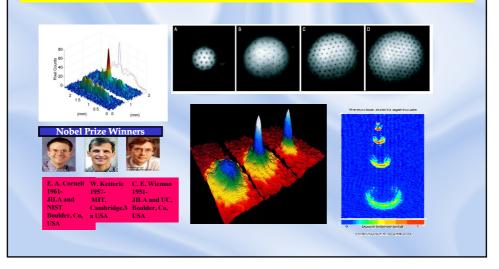




What are we going to talk about: BEC and Nonlinear Atom Optics

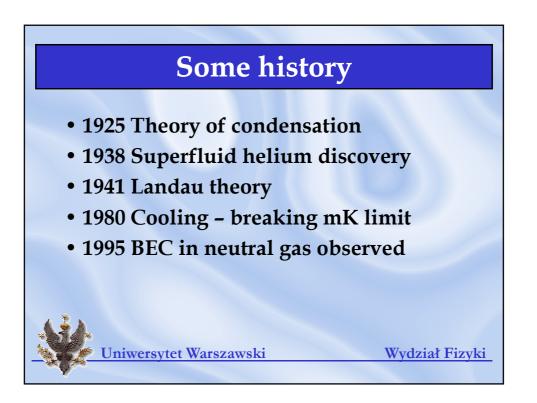


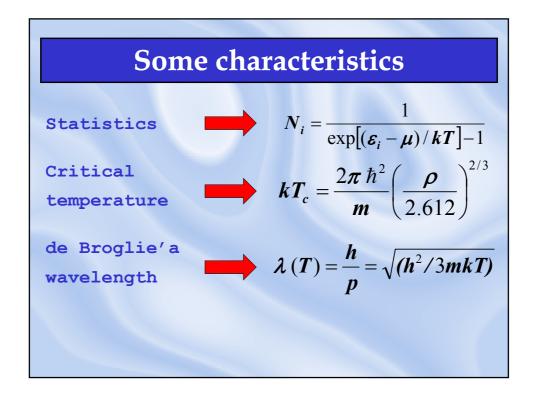








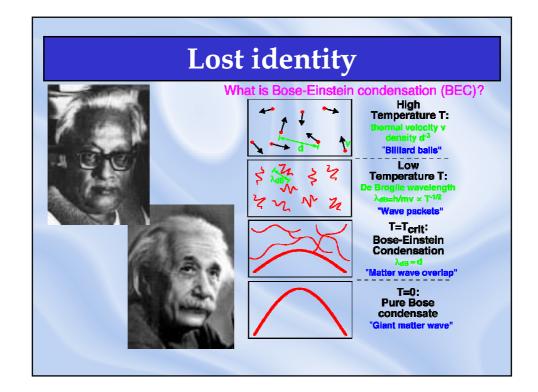


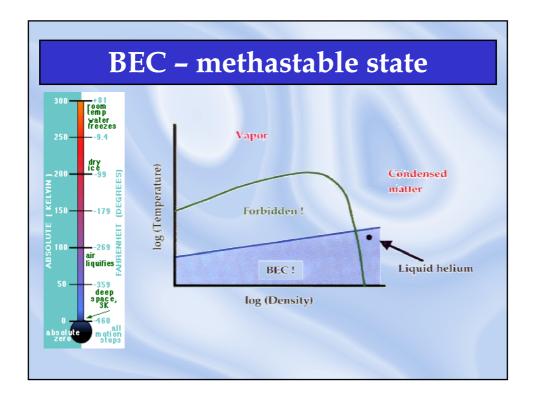








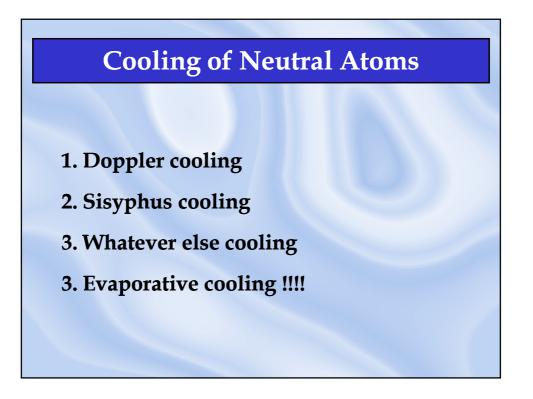


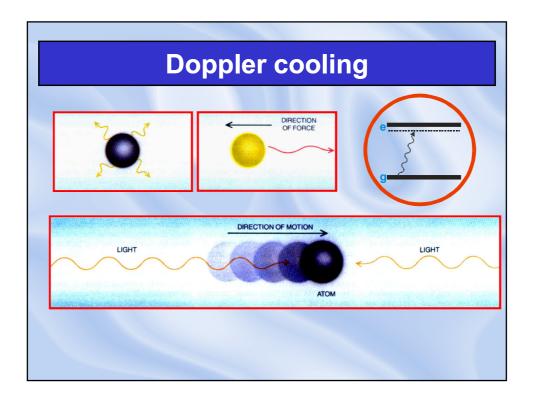








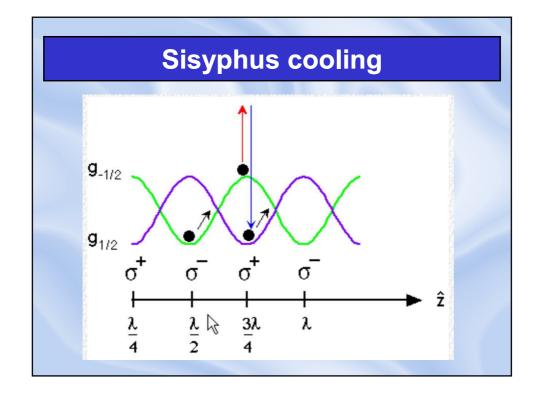


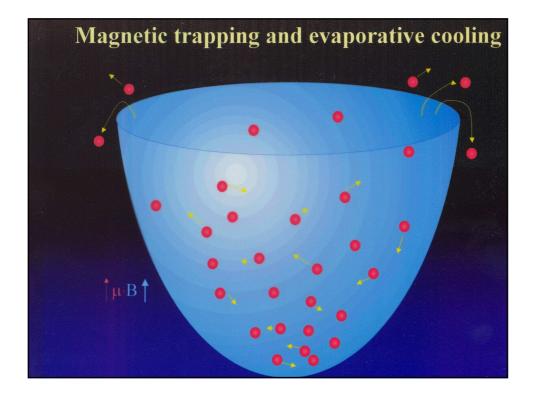








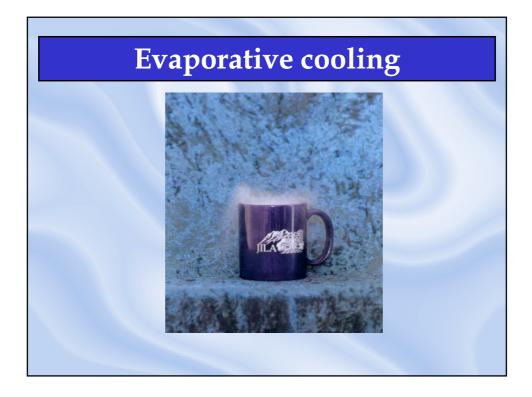


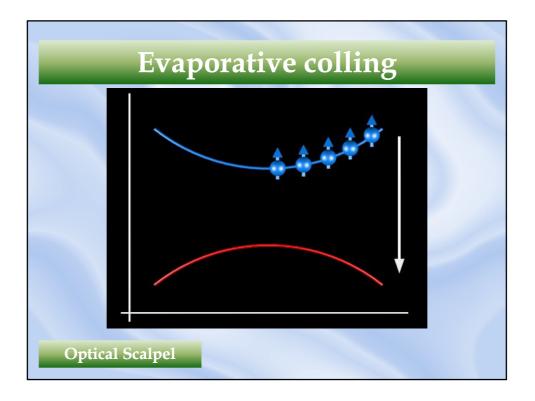








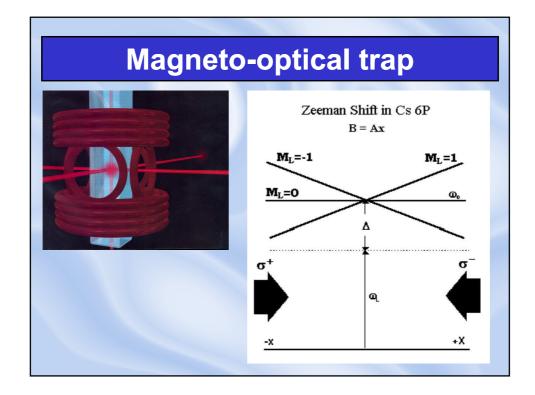


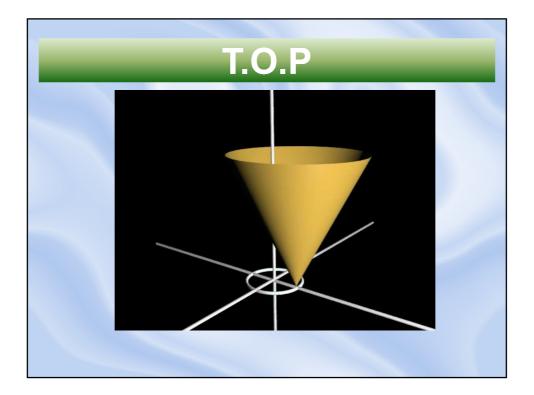








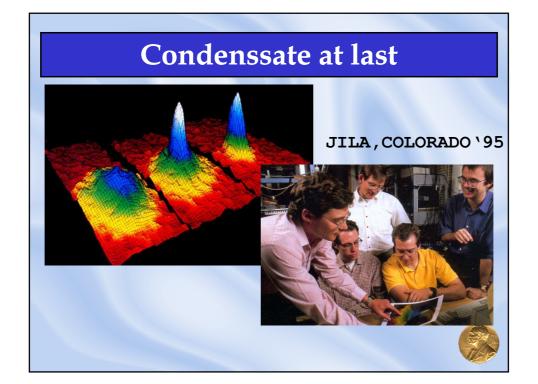


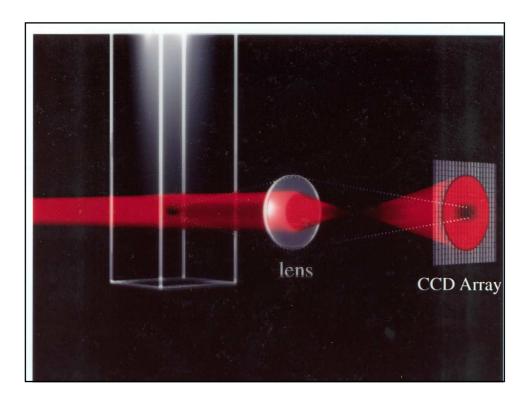










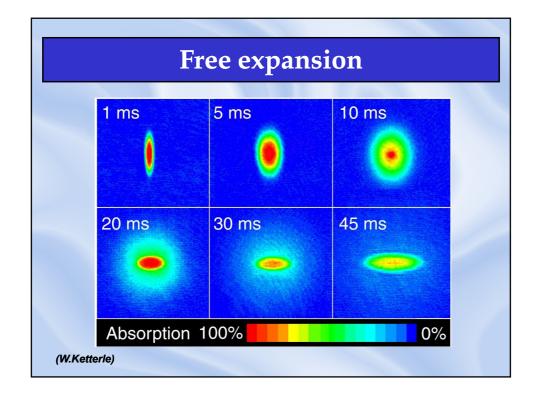


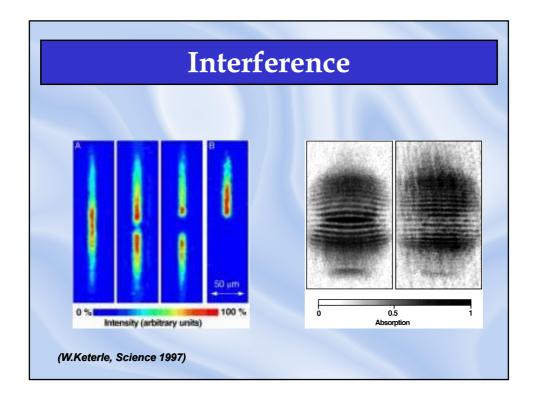








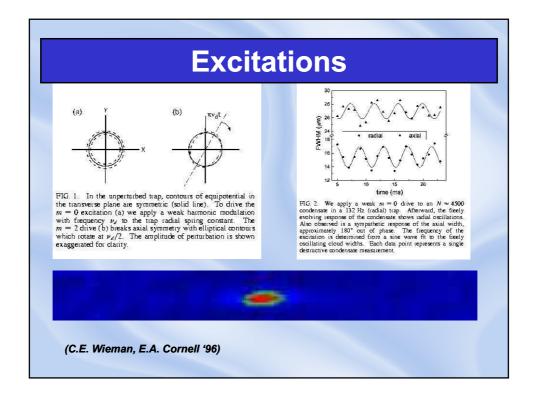


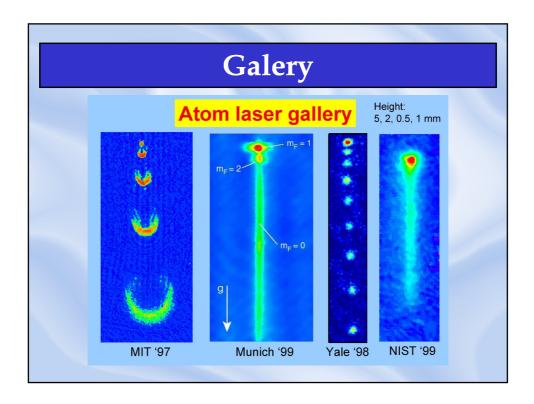








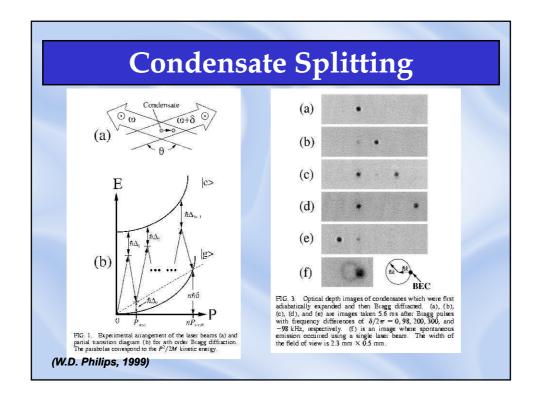


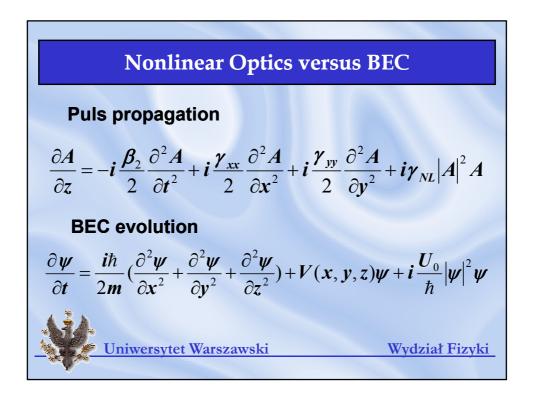








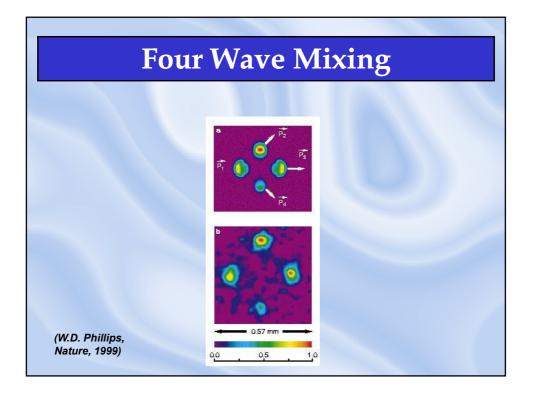


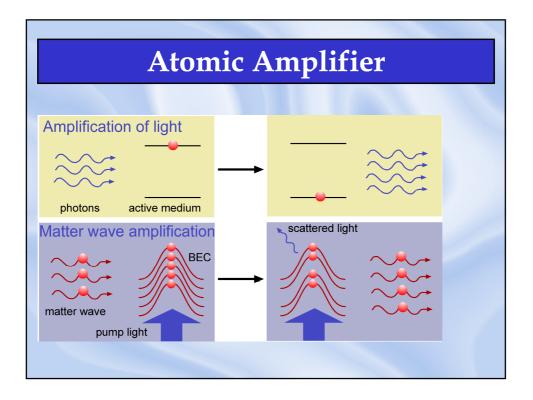








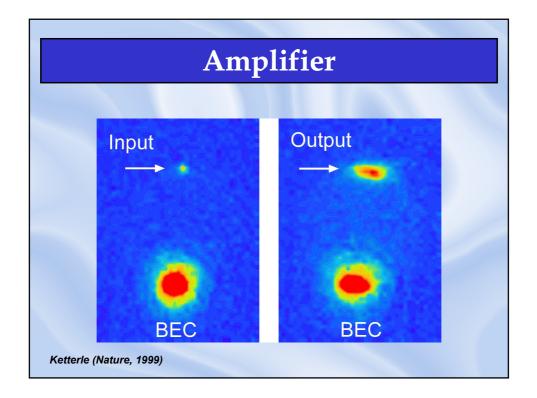


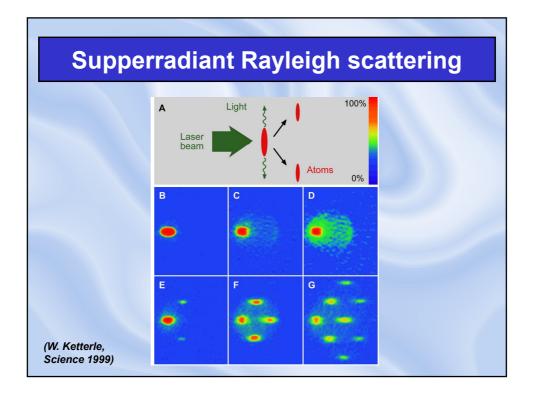








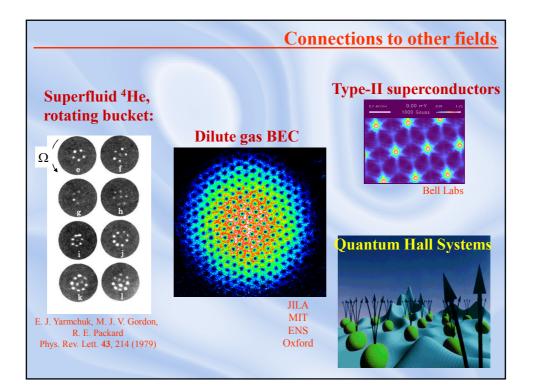


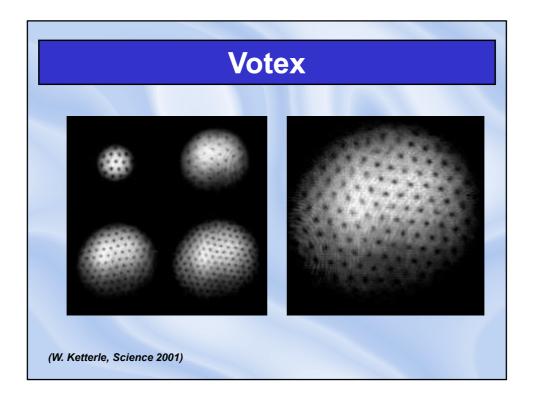












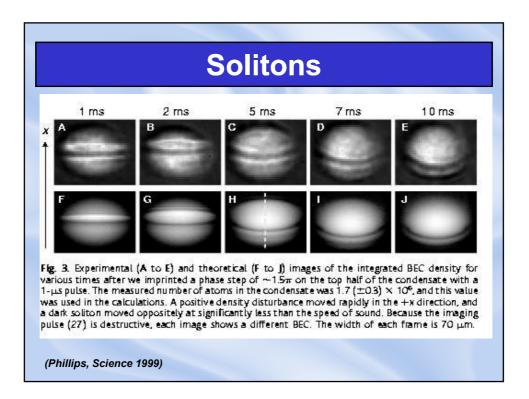








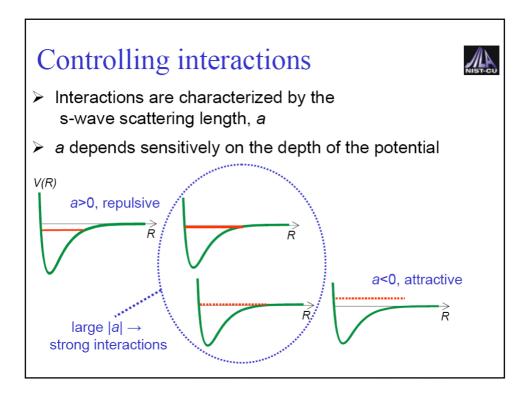
How to observe voctes <image>i = 1 $\mu = \frac{1}{1}$ (i) (i) is without a vortex and (μ)) are with a vortex. Core is a first parently in the regarding spacing x_1 is the two condensates is π .

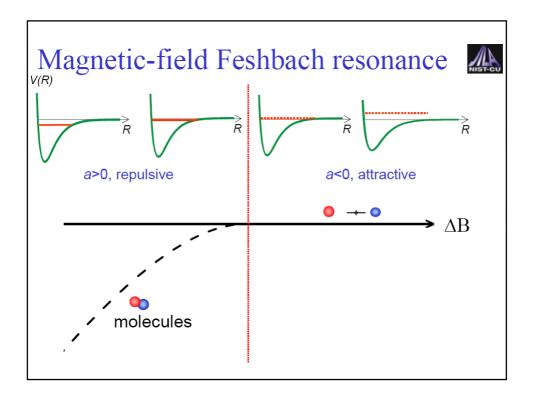








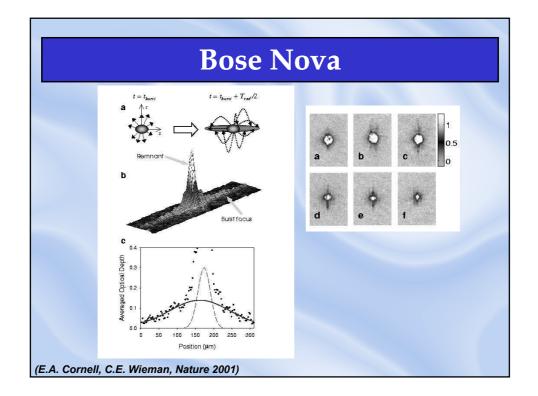


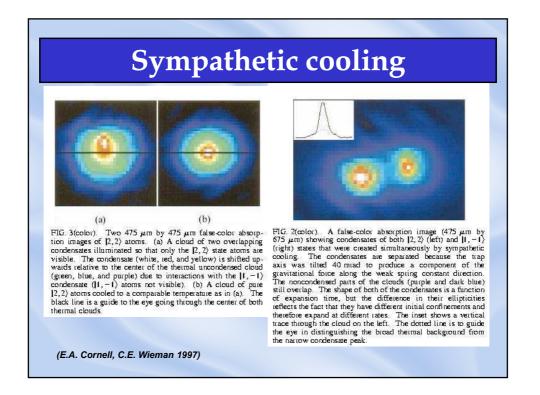








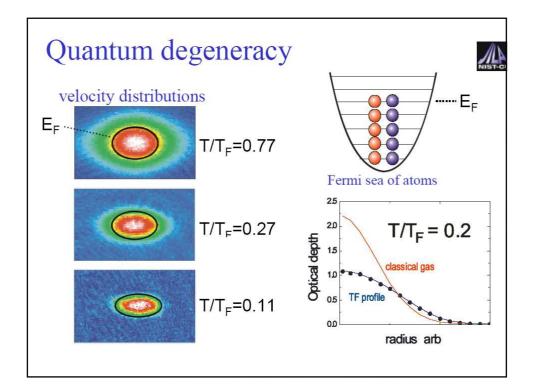


















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Wolfgang Ketterle



Wolfgang Ketterle received the 2001 Nobel Prize for Physics for his contributions to the understanding of Bose-Einstein condensates. Since 1995, Ketterle and his group have developed novel techniques for probing condensates such as non-destructive imaging and optical trapping; have pioneered methods for better condensate confinement; and have studied important BEC topics such as condensate formation and manipulation.

Ketterle received his diploma thesis from the Technical Univ. of Munich in 1982, working on theoretical solid-state physics. Under the direction of Professor Herbert Walther at the University of Munich, he received his PhD in 1986, studying experimental molecular spectroscopy. His postdoctoral work included laser spectroscopy of molecules at the Max-Planck Institute for Quantum Optics in and Combustion diagnostics in Geidelberg. In 1990, he joined Professor David Pritchard's group in RLE as a postdoctoral associate. Ketterle was appointed to the MIT faculty in the Department of Physics as an assistant professor in 1993, and his promotion to full professor was recently announced.

