

Steven Girvin

Steven Girvin is a condensed matter theorist with interests in quantum phase transitions, quantum optics and quantum computation. Girvin received his BS from Bates College in 1971 and his PhD from Princeton University in 1977. From 1977 to 1979 he was a postdoctoral fellow at Indiana University and Chalmers University of Technology. From 1979 to 1987 he was a staff physicist at NIST, and from 1987 to 2001 he was Professor of Physics at Indiana University. In 2001 Girvin moved to Yale University where he is now Eugene Higgins Professor of Physics and Applied Physics, and Director of Graduate Studies for the Department of Physics. He is a Fellow of the American Physical Society and the American Academy of Arts and Sciences.

Professor Girvin has made seminal contributions to the theory of the fractional quantum Hall effect and the theory of the superconductor-insulator quantum phase transition. His present interests are in quantum computation and quantum optics. In close collaboration with his experimental colleagues Robert Schoelkopf and Michel Devoret, he is currently pursuing development of a new paradigm of quantum optics and cavity QED for superconducting electrical circuits in the microwave regime.