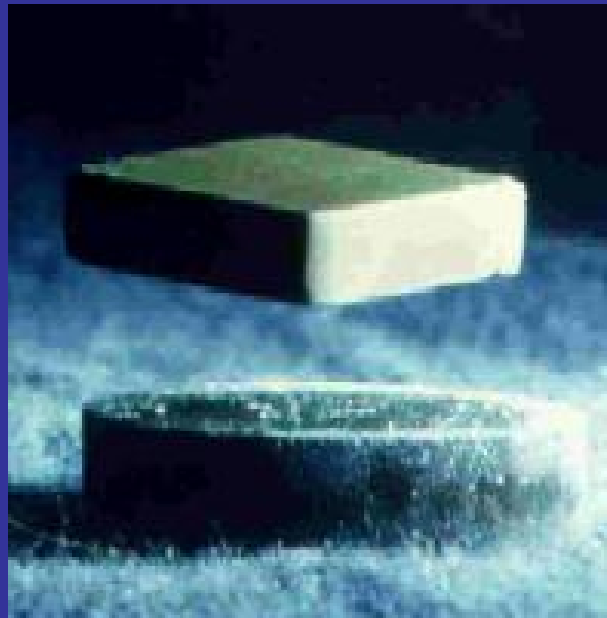


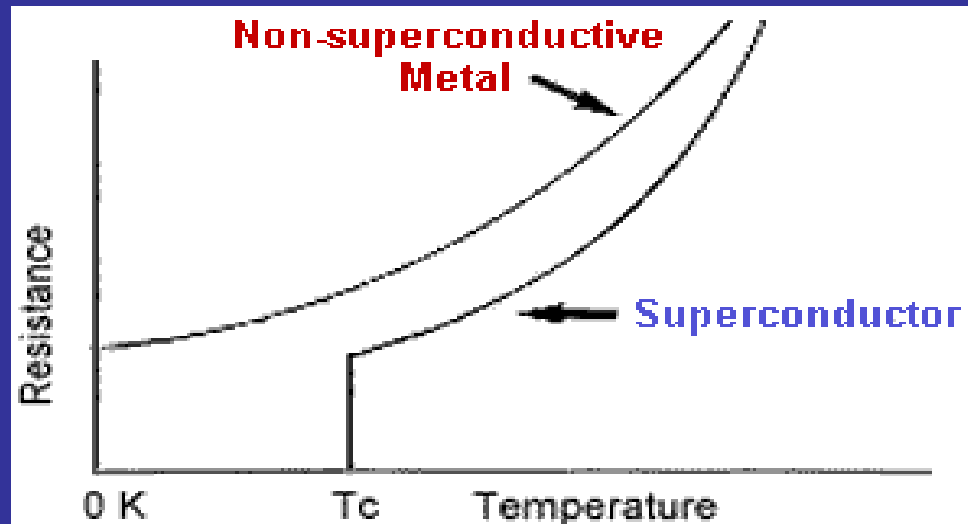
Prof. Peter Hirschfeld
NPB 2156, Ofc hrs. M4 W5

Research: superconductivity



Superconductivity

Zero: loss of resistance below a certain temperature, T_c .

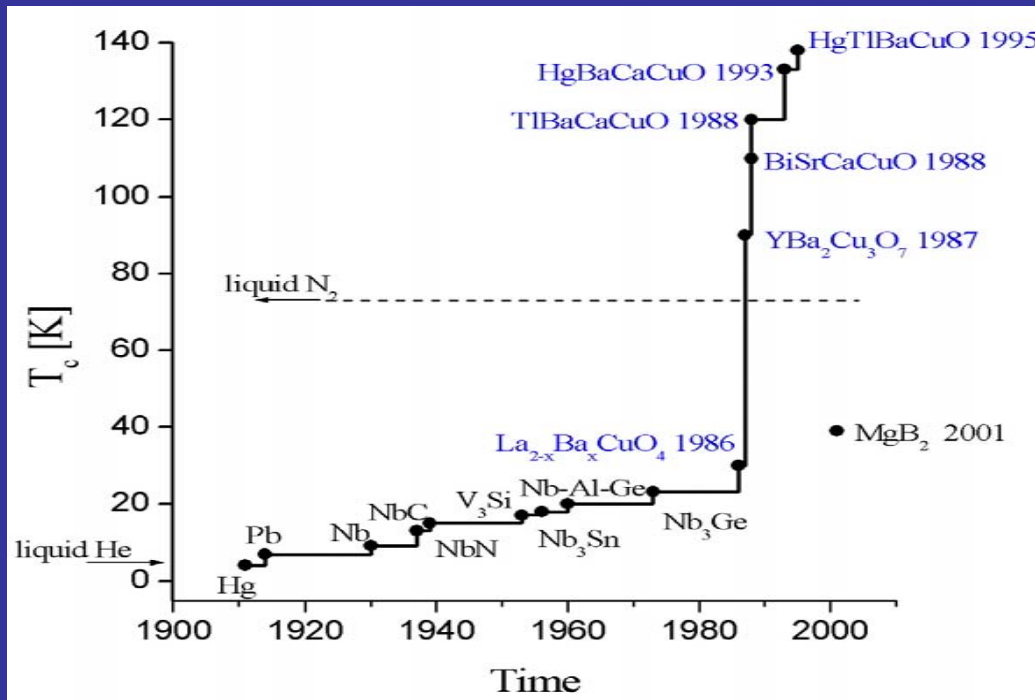


Infinite: Once set in motion, electrical current will flow forever in a closed loop of superconductor.

Perfect: expulsion of magnetic field from chunk of material, perfect "diamagnetism".

Superconductivity: History

Discovered in 1911 in mercury by Dutch physicist Heike Kamerlingh Onnes.



6 Superconductivity related Nobel prizes!