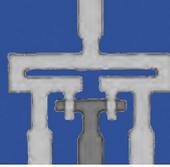
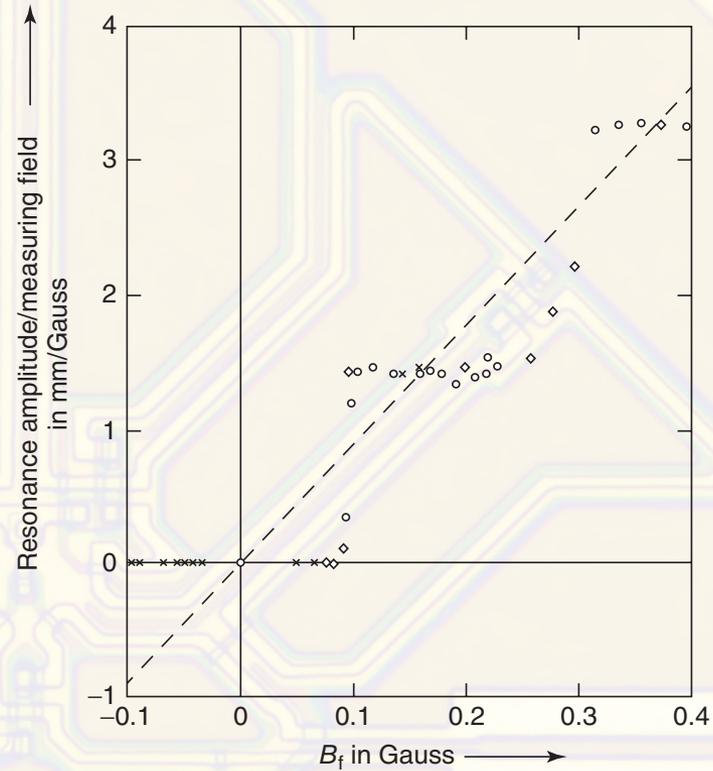
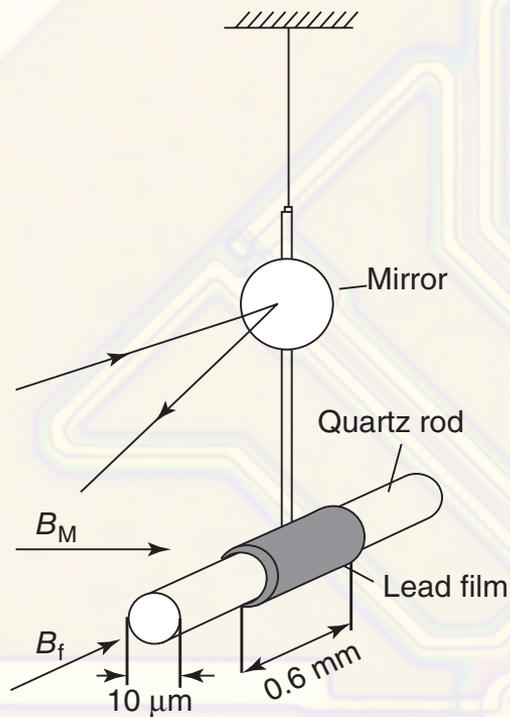




# Quantization of Magnetic Flux

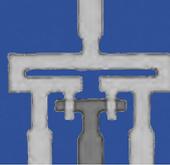


Doll and Näbauer

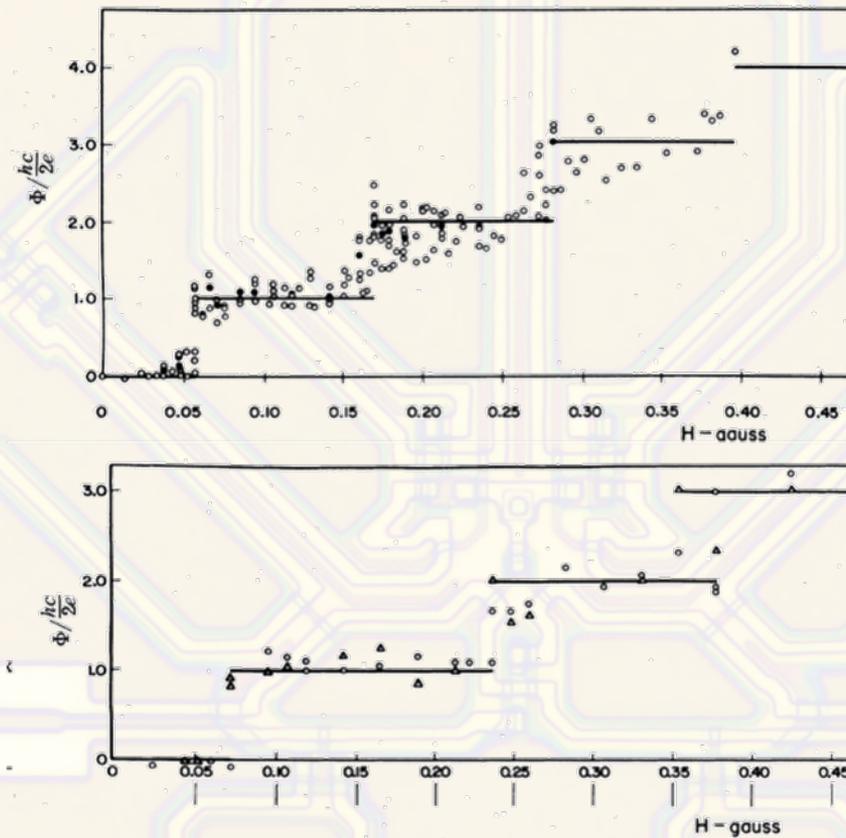




# Quantization of Magnetic Flux

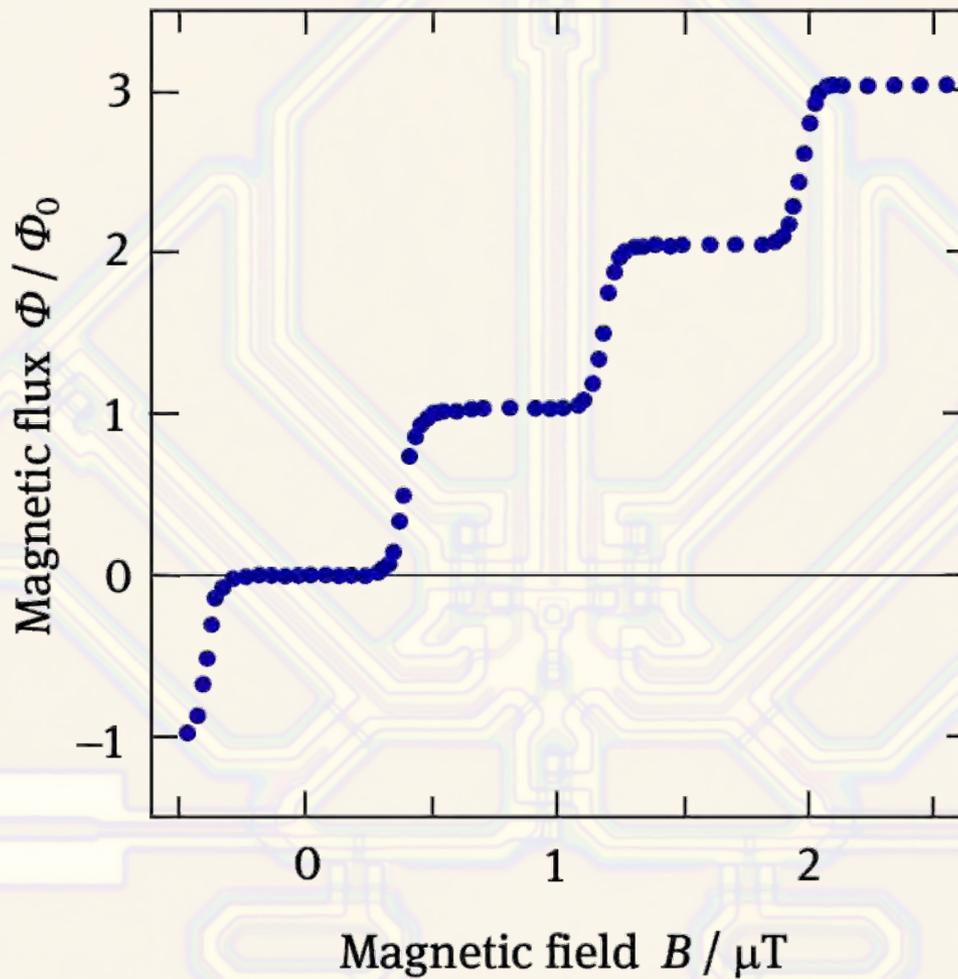
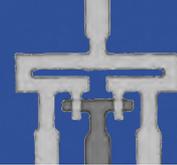


Deaver and Fairbank

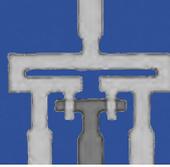




# Quantization of Magnetic Flux

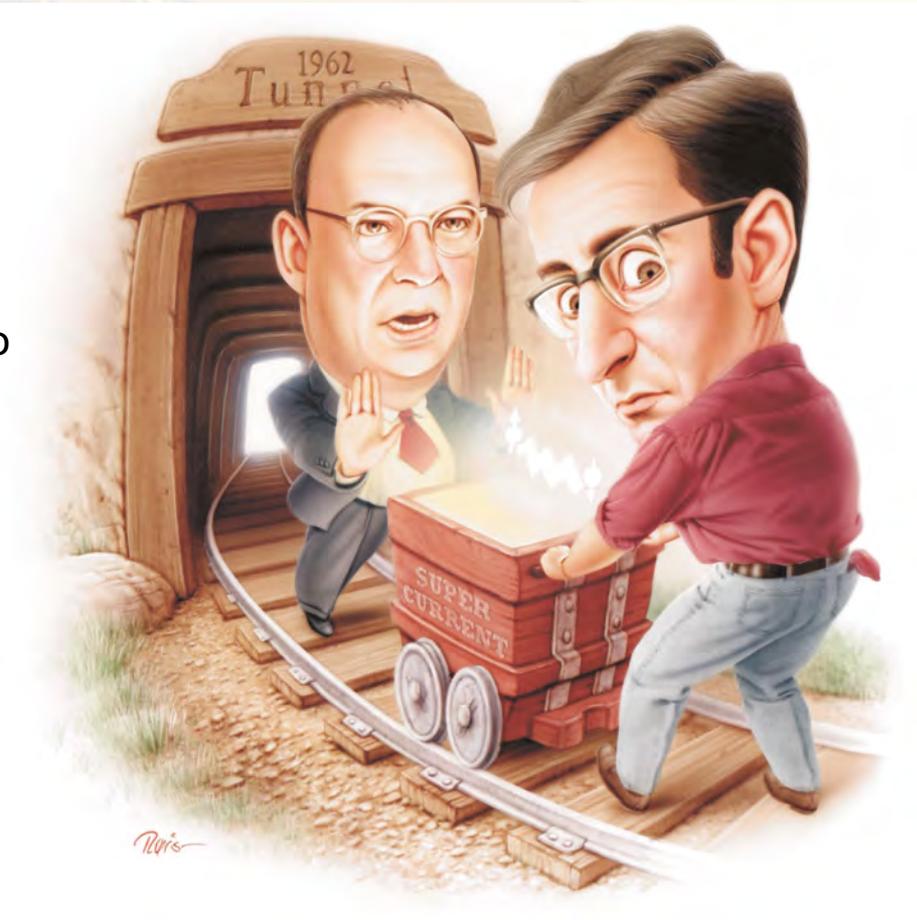


measured with a SQUID Magnetometer



## The Nobel Laureate Versus the Graduate Student

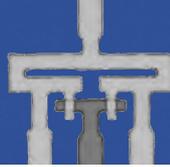
In a recent note, Josephson uses a somewhat similar formulation to discuss the possibility of superfluid flow across the tunneling region, in which no quasi-particles are created. However, as pointed out by the author [Bardeen, in a previous publication], pairing does not extend into the barrier, so that there can be no such superfluid flow.



*Physics Today* **54**, 46-51 (2001)

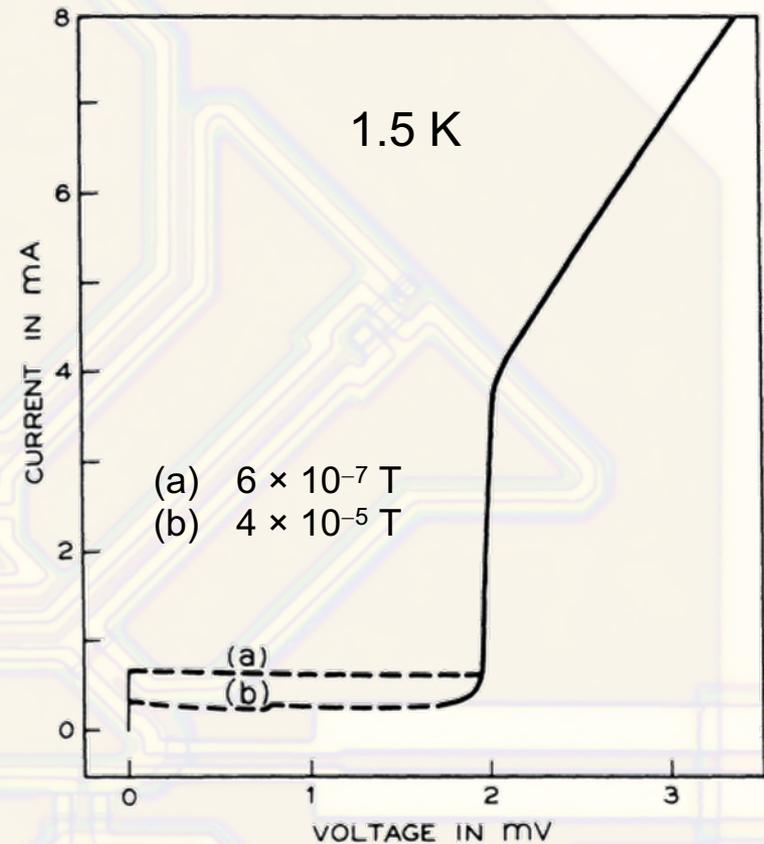


# Josephson dc Effect: Experimental Proof



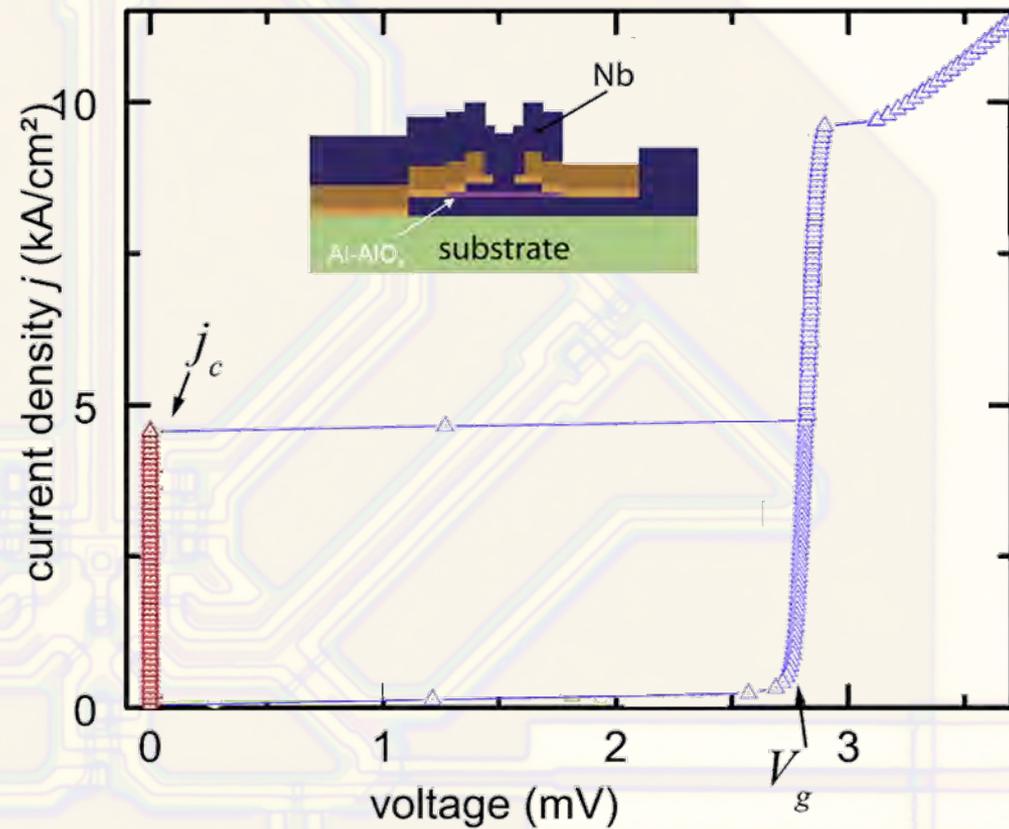
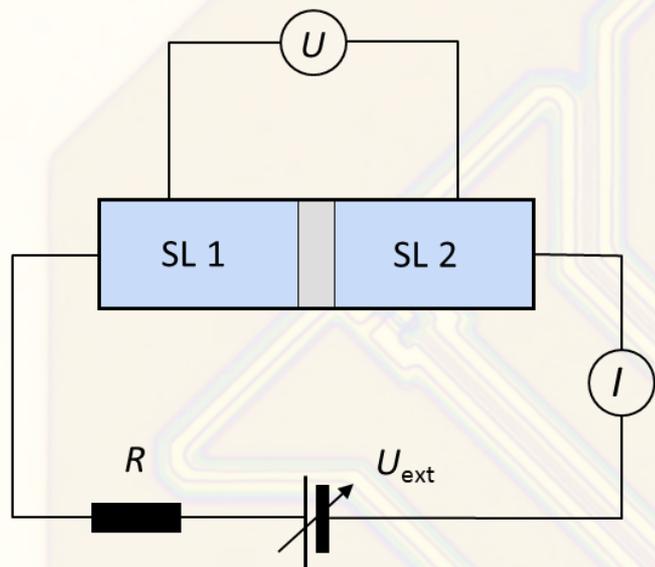
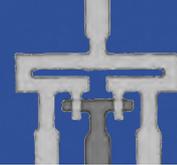
First experimental proof of Josephson dc effect  
by P.W. Anderson and J.M. Rowell 1963

Sn-SnO-Pb junction



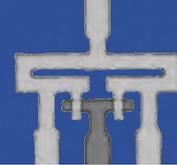


# Josephson dc Effect: Nb-Junction





# Josephson dc Effect: Nb-Junction



Temperature dependence

