

# CERN and Superconductivity

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Early relations :

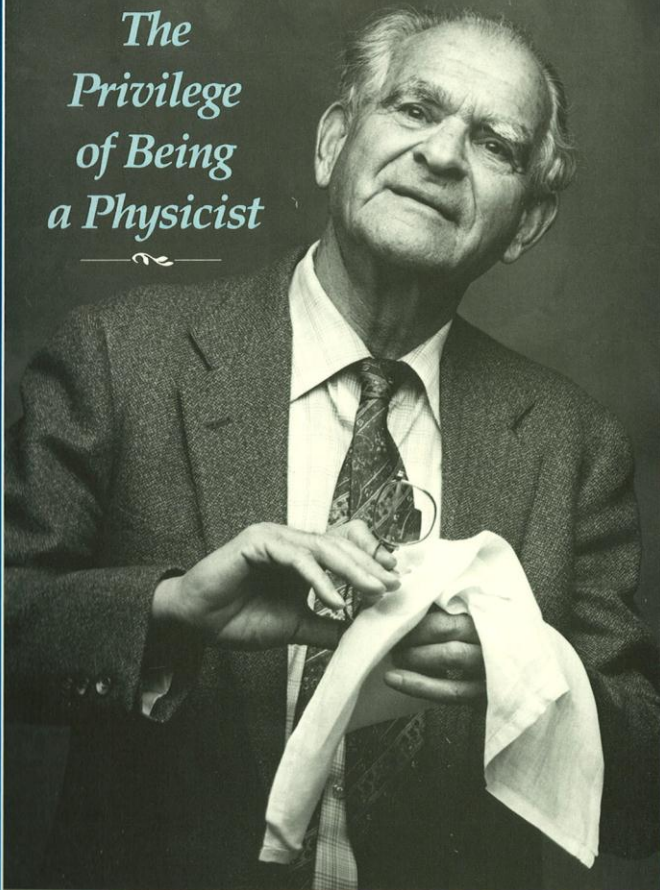
ORGANISATION EUROPÉENNE POUR LA RECHERCHE NUCLÉAIRE  
**CERN** EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH

THE FORMATION OF COOPER PAIRS  
AND THE NATURE OF SUPERCONDUCTING CURRENTS

Victor F. Weisskopf

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*The  
Privilege  
of Being  
a Physicist*



Delay between discovery and application of a phenomenon:

Shortest: x – rays, 1905, **6 months**

Longest : fuel cell, ..... **150 years**

$E = mc^2$ , 1905 .....Chicago 1940, **35 years** :

- Classical type II Superconductivity
- 1911 discovery  $\approx$  **50 years**
- 1960, NbTi, USA
  
- HTS, Cuprates;
- 1986 discovery,  $\approx$  **21years**
- 2007 YBCO, CERN,

