

Topological quantum numbers in condensed matter systems

Organization

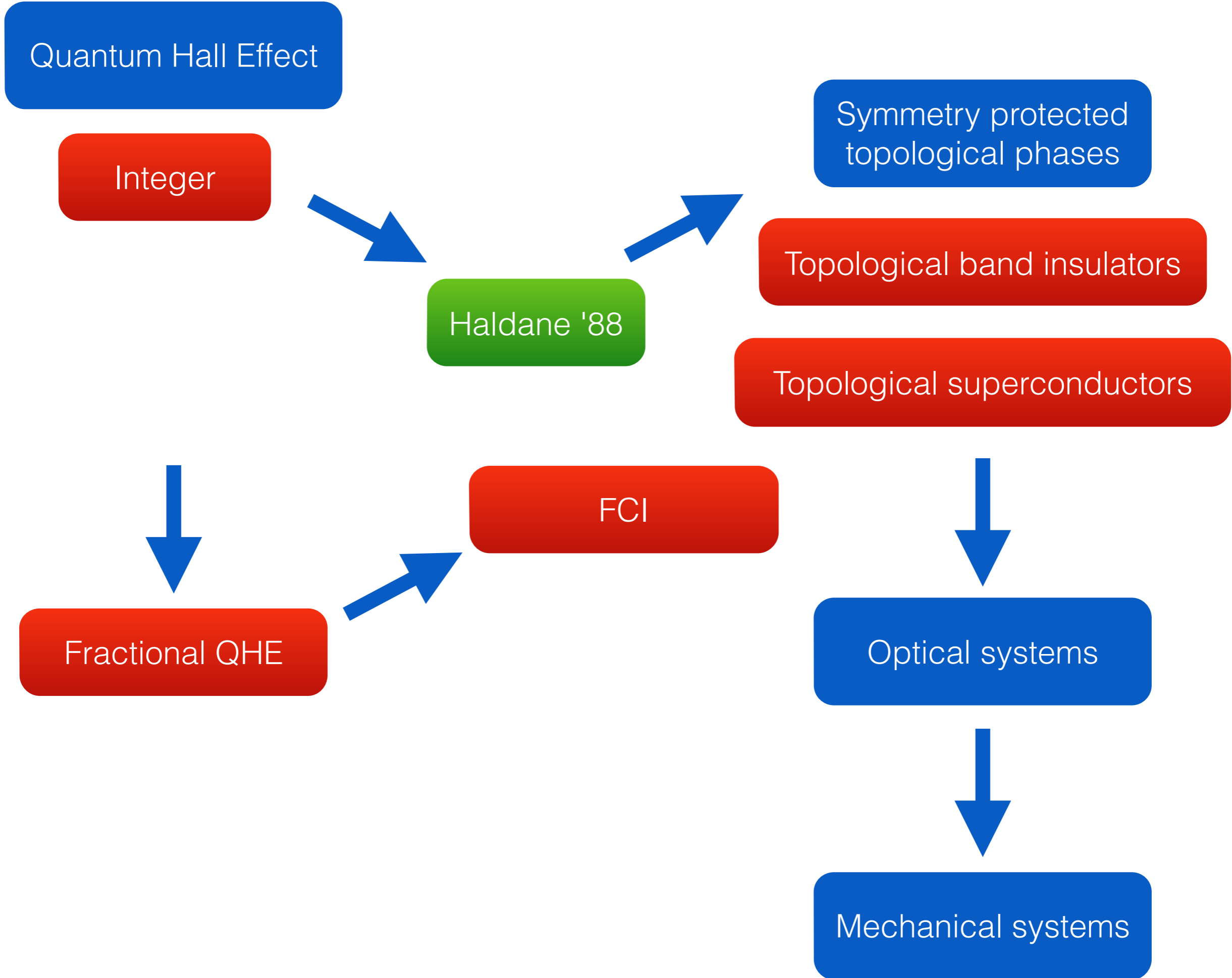
- $2V+U$ re-interpreted
- Every (more or less) three weeks: assignment to be solved in class in three hours.
- Questions: don't wait for the break!
- Notes? How many printed copies?
- <https://cmt-qo.phys.ethz.ch/teaching/tqn>

Symmetry protected
topological phases

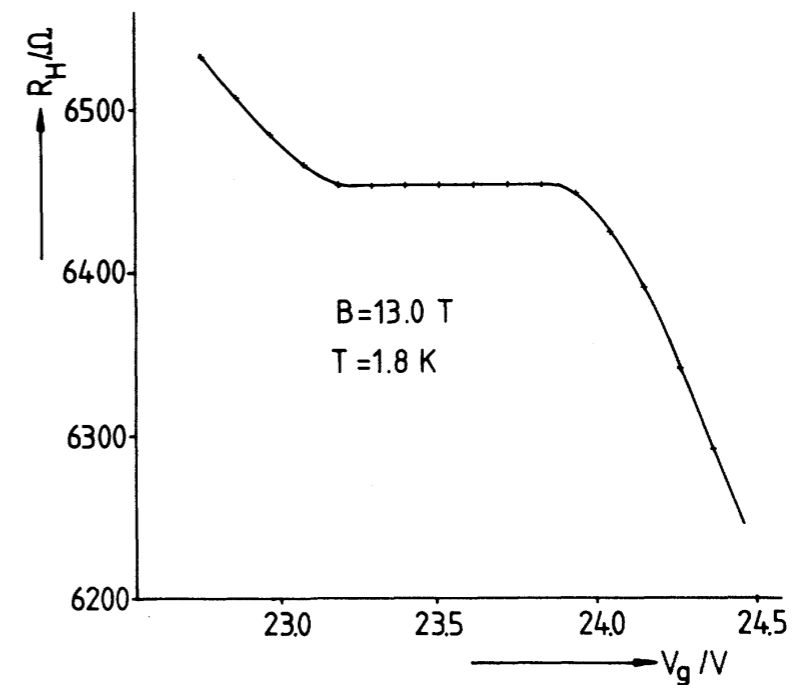
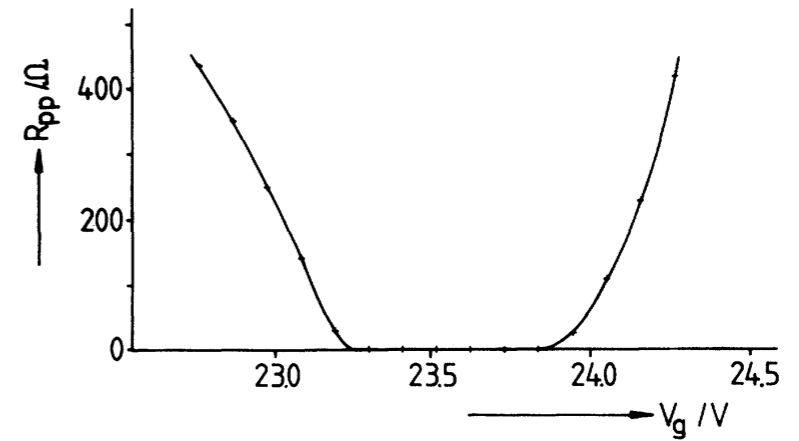
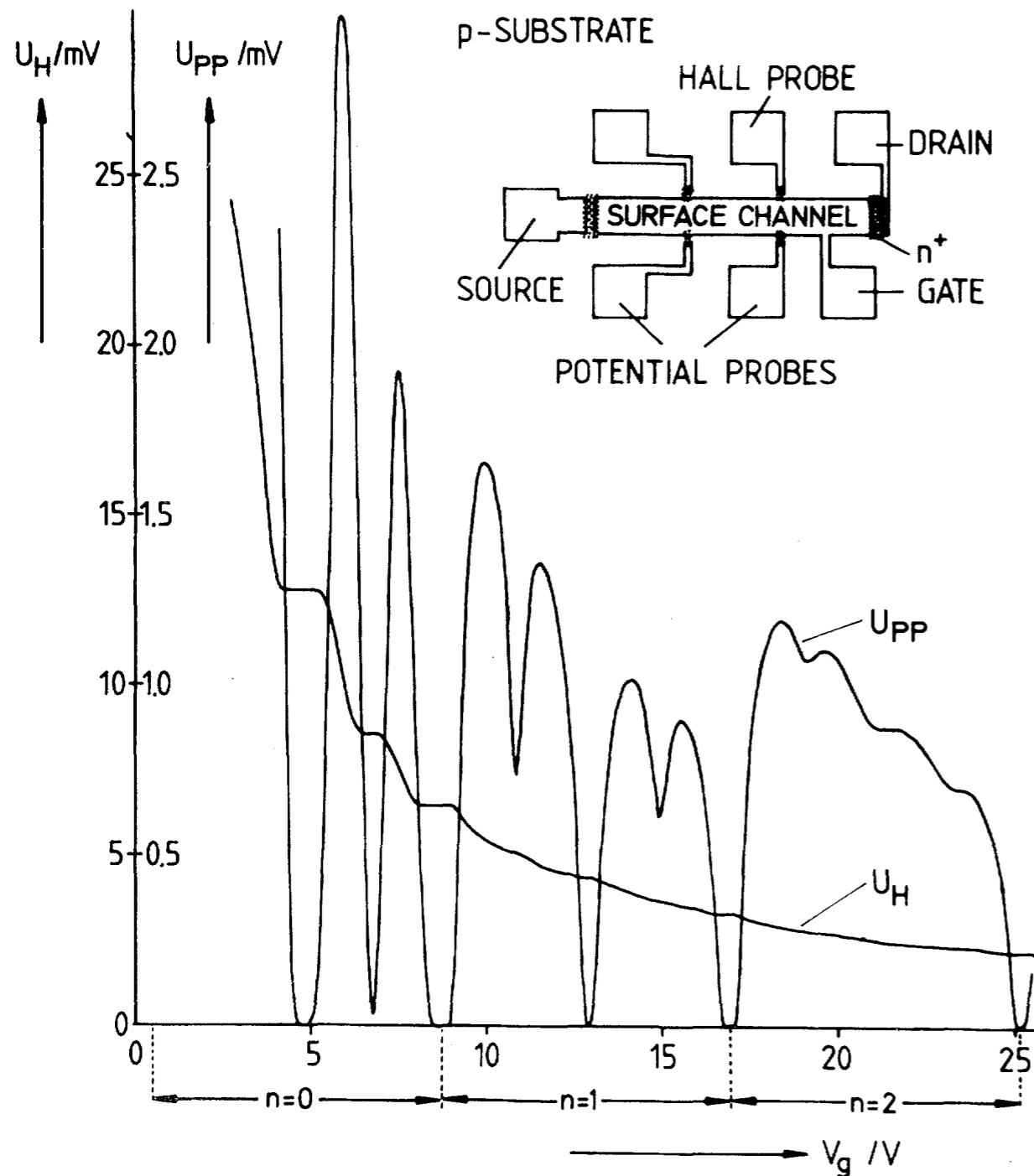
Topological band insulators

Topological superconductors



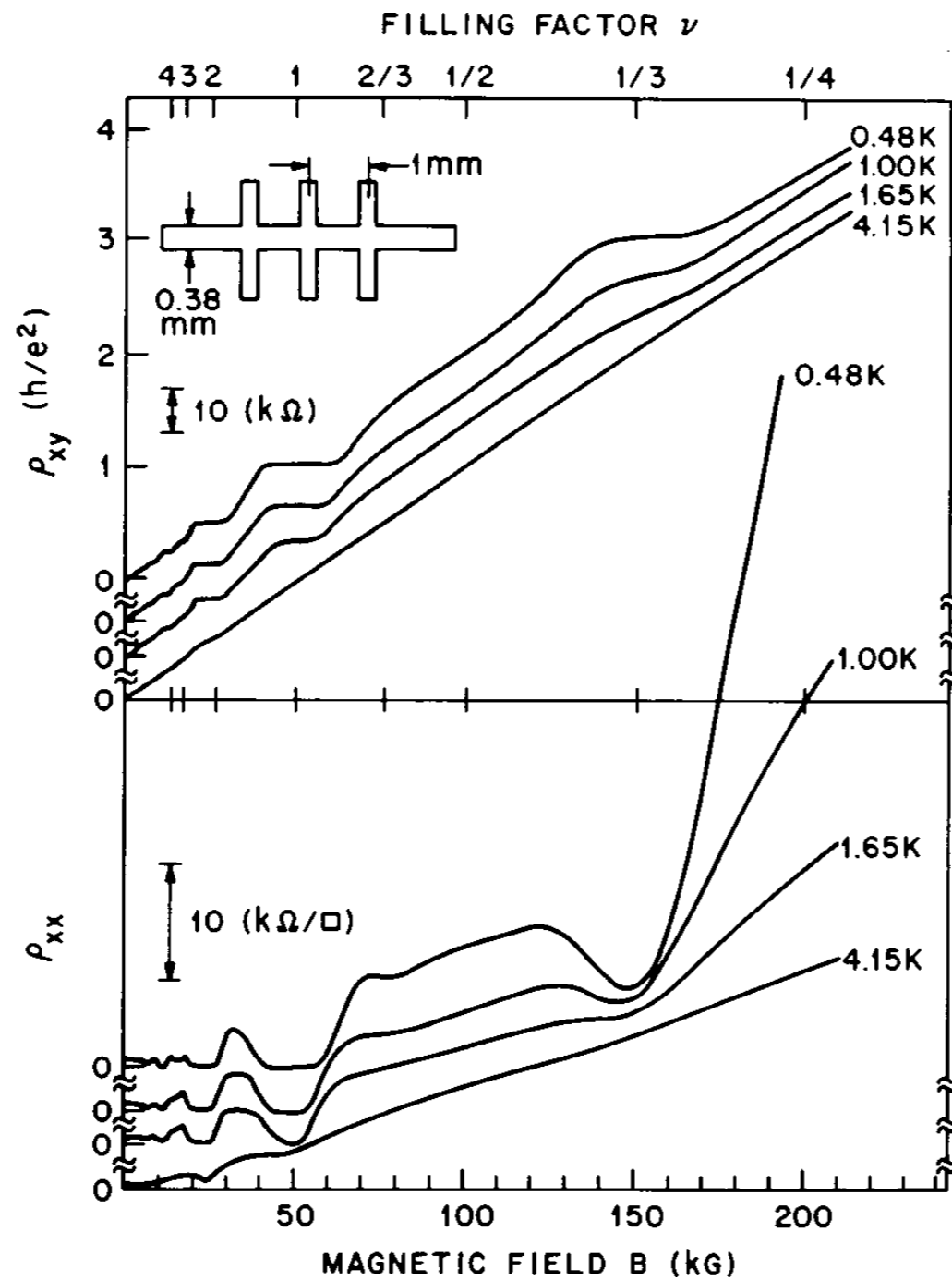


A dramatic observation



von Klitzing PRL 1980

Even more dramatic



Even more dramatic

