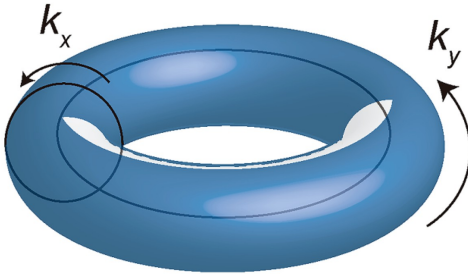
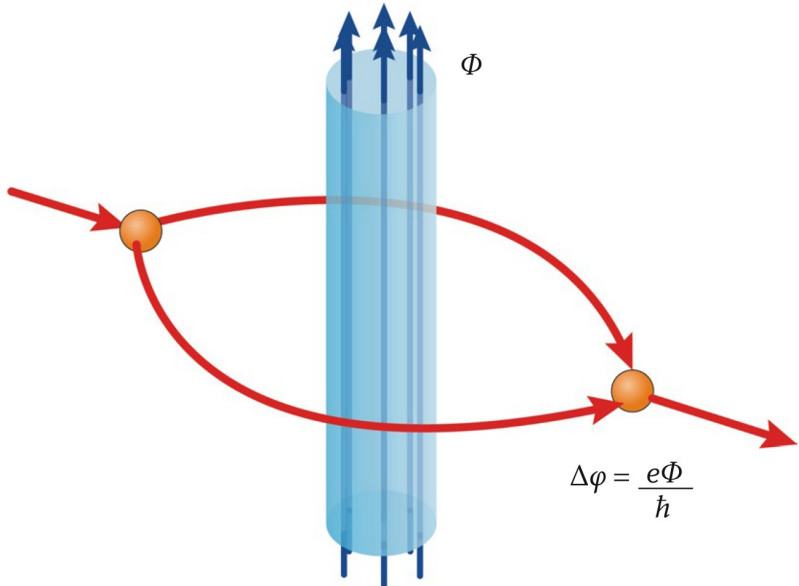


Band topology

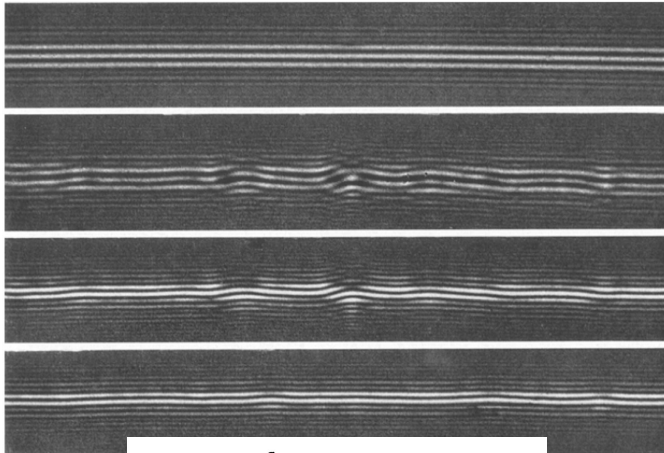


anomalous velocity





Aharonov-Bohm effect: electronic



field off

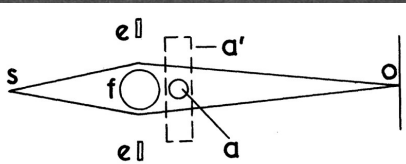
field on



field on

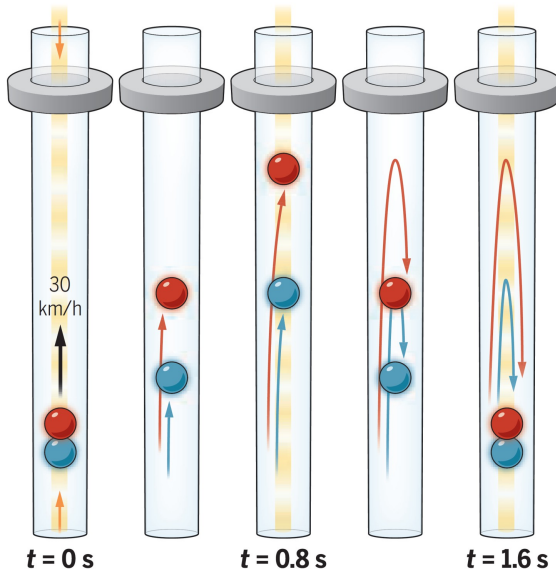


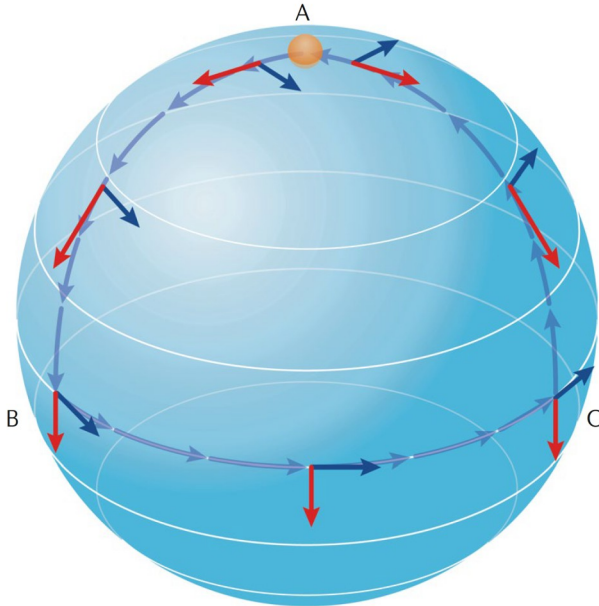
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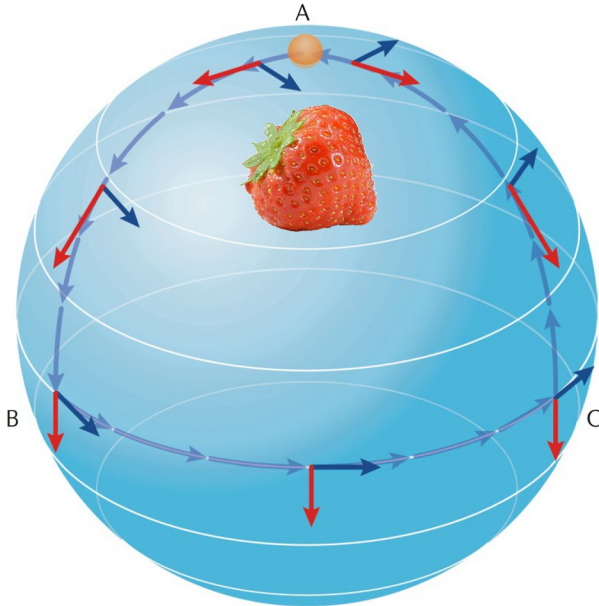


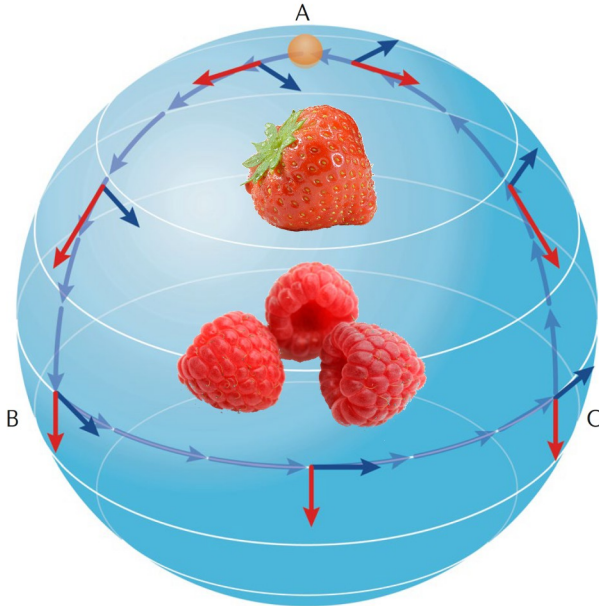
Phys. Rev. Lett. 5, 3 (1960)
Z. Phys. 169, 263 (1962)

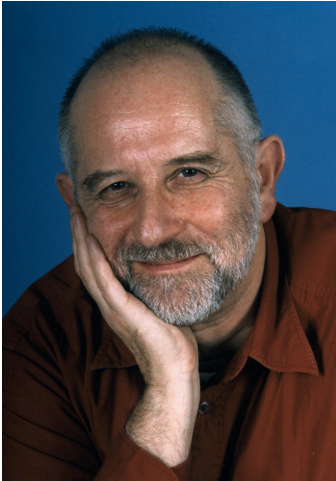
Aharonov-Bohm effect: also gravitational









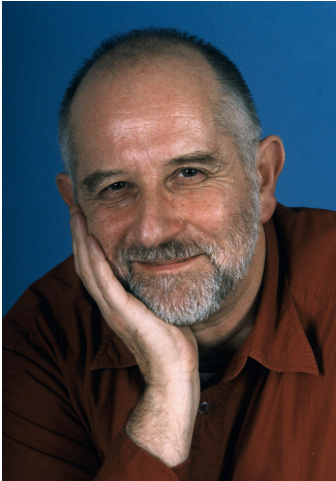


Sir Michael Berry
born 1941

1983: formulation of
geometrical phase

2000: Ig Nobel prize
(levitating frog)

Image credit: Michael Berry



Sir Michael Berry
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1983: formulation of
geometrical phase

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Related works

Pancharatnam (1956):
geometrical phase in optics

Joshua Zak (1989):
Berry phase in periodic systems

No seminar this week

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First seminar on 14.11 or 21.11

Susanne Moritz:

degeneracy of Landau levels

Lea Polonyi, Elise Morawe:

- 1) Aharonov-Bohm effect
- 2) Berry curvature / anomalous velocity from matrix elements

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- 1) Aharonov-Bohm effect
- 2) Berry curvature / anomalous velocity from matrix elements

Second seminar: topological insulators

Full schedule later this week...

2D Brillouin zone as torus

