

band insulators

free fermions

Hall conductivity

donut = coffee cup



Berry phase

Chern number

gapless edge

Laughlin wavefunction

Chern-Simons theory



topological insulator

projective symmetry

anyons

Landau was wrong

SPT

group cohomology

string nets

Berry phase is
polarization



Dijkgraaf-Witten
theory

partons

anomalies

bulk-boundary correspondence

modular tensor categories

polarization is
Berry phase

RCFT

cobordism
classifications

K theory

anyon condensation



quantum computation with anyons

higher symmetries

free fermions

Laughlin "wavefunction"

SPTs made from legos

photon is
a Goldstone mode



categorical symmetry

Landau was
right all along

the category of theories

SPTs are
Berry phase



Brauer-Picard
3-groupoid

Kitaev appendices

the universe is
the boundary of an SPT

everything is Berry phase

the universe is
a string net

free fermions

Landau = Lifschitz

topology is unobservable

doughnut = coffee cup

universe literally
in a helium droplet

