

Electrons	Fermion partons $S = f_{\alpha}^{\dagger} \frac{\sigma_{\alpha\beta}}{2} f_{\beta}$
Fermi liquid	Bose metal Spinon Fermi surface
BCS superconductor	\mathbb{Z}_2 spin liquid
Chern insulator (Class A)	Chiral spin liquid
$p_x + ip_y$ superfluid (Class D)	ITO - spin liquid with non-Abelian Ising anyons (Kitaev honeycomb)
Semi-metals with gapless Dirac spectrum (graphene)	Gapless spin liquid Square lattice: $N_f = 2$ SU(2) QCD or SO(5) ₁ WZW model Triangular lattice: $N_f = 4$ QED
Complex SYK non-Fermi liquid	SY spin liquid