Reading List for Boulder Summer School Lectures 2016.

“Weyl Semimetals, Duality and Symmetry Protected Topological Phases”.

Ashvin Vishwanath (Harvard University)

Weyl Semimetals:

Review Articles:

   - Basic reference both for Weyl semimetals and SPT phases
   - Well written review focusing on transport properties
   - Very clear overview of topological properties of condensed matter systems with substantial discussion of Weyl semimetals.
   - Detailed derivation of transport properties, chiral anomaly etc.

Research papers:

Fermi Arc Surface States:


Symmetry Requirements for Band Crossing:

Quantum Oscillations and Fermi Arcs


Chirality transfer dynamics in quantum orbits in the Dirac semi-metal Cd3As2

Articles on Duality and Symmetry Protected topological phases to be added…