

Topics for in class presentation.

/ SELECT ONE, 15 MIN PRESENTATIONS /

1. Topological insulators.
2. Graphene.
3. Quantum Hall effects and its connection to topology.
4. Quantum spin liquids.
5. Mott insulators.
6. High T_c superconductors - cuprates and pnictides
7. Superconductivity under pressure H_2
8. Weyl semimetals.
9. Kitaev materials (Majorana physics).
10. Room T_c superconductivity in ultra-fast experiments.
11. 2D electron gas in correlated ^{oxide} materials
12. Thermal Hall effect.
13. Quantum phase transitions.
and its connection to early universe.
14. Heavy fermion compounds.
15. Multiferroics.
16. Topological phase transitions.