

Workshop venue: Old Combination Room (OCR), Trinity College, Cambridge.

MONDAY SCHEDULE:

[8:15-9:15 breakfast]

chair: D.Logan (Oxford)

9:25-9:30 welcome

chair:

9:30-10:30 **Y.Motome** (Tokyo): *Emergent spin texture and band topology in frustrated itinerant magnets*

10:30-11:00 discussion

11:00-11:30 **coffee break** in the Allhusen room, next door to workshop venue (OCR)

11:30-11:50 **J.Chalker** (Oxford): *RKKY interactions in quasicrystals*

11:50-12:10 **J.Richter** (Magdeburg): *Strongly correlated electrons on frustrated lattices: Flat-band ferromagnetism and beyond*

12:10-12:30 discussion

12:30-14:00 **lunch** cafeteria-style buffet in Hall, downstairs from workshop venue (OCR)

chair: S.Dutton (Cambridge)

14:00-15:00 **Z.Hiroi** (ISSP Tokyo): *materials, phenomenology, and experimental techniques*

15:00-15:30 discussion

15:30-16:00 **coffee break** in the Allhusen room, next door to workshop venue (OCR)

16:00-16:20 **A.Coldea** (Oxford): *Frustrated antiferromagnetic metal, $2H-AgNiO_2$*

16:20-16:40 **H.von Loehneysen** (KIT): *Quantum phase transition in a partially frustrated heavy-fermion system: $CePdAl$*

16:40-17:00 **M.Aronson** (Stony Brook): *Quantum Criticality from Ising Spins: One-Dimensional Excitations in Heavy Fermion Yb_2Pt_2Pb*

17:00-17:30 discussion

17:30-18:15 free breakup discussion

18:15-19:15 **workshop dinner** cafeteria-style buffet in Hall, downstairs from workshop venue (OCR)

TUESDAY SCHEDULE:

[8:15-9:15 breakfast]

chair: J.Mydosh (Leiden)

9:30-10:30 **C.Broholm** (JHU): *Spin fluctuations in frustrated magnets; insulating, itinerant, and superconducting*

10:30-11:00 discussion

11:00-11:30 **coffee break** in the Allhusen room, next door to workshop venue (OCR)

11:30-11:50 **A.Ramhanisyan** (UBC): *Effective action of noncoplanar itinerant magnets*

11:50-12:10 **R.Thomale** (Wuerzburg): *Geometric frustration and unconventional Fermi surface instabilities in itinerant electron systems*

12:10-12:30 discussion

12:30-14:00 **lunch** cafeteria-style buffet in Hall, downstairs from workshop venue (OCR)

chair: B.Doucot (Paris Jussieu)

14:00-14:20 **G.Chen** (Shanghai-Fudan): *Monopole condensation phase transition out of quantum spin ice*

14:20-14:40 **R.Moessner** (MPI-PKS): *Frustrated magnetism with mobile defects*

15:00-15:30 discussion

15:30-16:00 **coffee break** in the Allhusen room, next door to workshop venue (OCR)

16:00-16:20 **A.Bernevig** (Princeton): *Prediction of two types of Weyl semimetals in TaAs and WTe₂*

16:20-16:40 **E.Bergholtz** (Berlin): *Topology and Interactions in a Frustrated Slab: Tuning from Weyl Semimetals to $C > 1$ Fractional Chern Insulators*

16:40-17:30 discussion

17:30-18:15 free breakup discussion

[18:15-19:15 self-organised dinner in town]

WEDNESDAY SCHEDULE:

[8:15-9:15 breakfast]

chair: D.Kovrizhin (Cambridge)

9:30-10:30 **C.Batista** (LANL): *Non-coplanar orderings in Itinerant Magnets*

10:30-11:00 discussion

11:00-11:30 **coffee break** in the Allhusen room, next door to workshop venue (OCR)

11:30-11:50 **J.Knolle** (Cambridge): *2- and 3-dimensional Kitaev Quantum Spin*

Liquids and promising connections to recent experiments on $A_2\text{IrO}_3$ and RuCl_3

11:50-12:10 discussion

12:10-12:30 **C.Hooley** (St.Andrews): *Closing remarks*

[12:30-14:00 self-organised lunch in town]