

Presents ... Monday, October 21, 2024 12:00pm - 1:00 pm Duboc Room - 4-331



Chez Pierre Seminar

Jiaqi Cai, MIT

"Progress of fractional quantum anomalous Hall effect in twisted MoTe2".

Fractional quantum anomalous Hall effect (FQAHE) can emerge in a fractionally filled topological flat band at zero magnetic field and relatively high temperatures. In this talk, we will explore that how rationally designed twodimensional materials, twisted MoTe2, provide a platform for these exotic physics to manifest. Our recently experimental progress reveals twist-angle dependent phase diagram and unusual nature of the v = -1/2 state, the proposed composite Fermi liquid state.