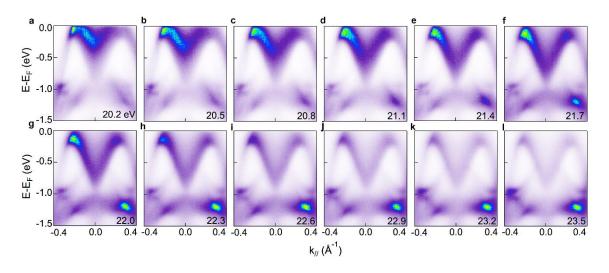
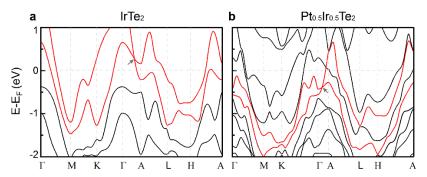
File name: Supplementary Information Description: Supplementary Figures

File name: Peer Review File Description:



Supplementary Figure 1: Evolution of the dispersion along Γ -M with a finite k_z (photon energy) step. (a-l) Dispersions along Γ -M high symmetry direction at different k_z values from 0.28 to 0.41×2 π /c with a fine photon energy step of 0.3 eV.



Supplementary Figure 2: Doping $PtTe_2$ with Ir to shift the Dirac node to the Fermi energy. (a) Calculated band dispersion of $IrTe_2$ along high symmetry directions, resolving the tilted Dirac node above the Fermi level. (b) Calculated band dispersion of $Ir_{0.5}Pt_{0.5}Te_2$ along high symmetry directions.