

# Spin Polarisation in HfTe<sub>2</sub>

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**Abstract.** HfTe<sub>2</sub> formed in the stable 1T phase is a member of the 2D di-telluride family of layered materials which has been studied little. We will present recent results of high-resolution ARPES measurements and DFT calculations. Although this material doesn't have any spin-polarisation when integrated over one layer for the reason of inversion and time-reversal symmetry, spin-polarised states exist due to hidden spin-polarisation and due to the surface. Spin-resolved measurements of the hole and electron pockets compared to SPR-KKR one-step model calculations will be discussed.