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Probing Magnetism in Topological Insulator

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Adding magnetism into the topological insulator (TI) is an effective way to activate anomalous quantum Hall effect in topological matters. In this work, the magnetization and complex exchange coupling in a TI layer grown on magnetic oxide will be investigated with assistance of x-ray magnetic circular dichroism (XMCD). The benefit of the element-specificity with XMCD helps to resolve the magnetism of the TI and its magnetic coupling behavior in this bilayer system.

