

Landau level spectroscopy of topological insulators

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In this talk, I will review recent results from magneto-optical studies conducted on several materials belonging to the class of topological insulators, using research facilities at the high- magnetic-field laboratory in Grenoble. Landau level spectroscopy [1] has been employed to investigate topologically protected surface states in tin-doped BiSbTe₂S [2], as well as bulk electronic bands in other topological insulators, including Bi₂Te₃, Sb₂Te₃, or PbSnSe [3–5]. In addition, Berry curvature has been explored through magnetic circular dichroism measurements in the magnetic topological insulator MnBi₂Te₄ [6].

References

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