

Abstract Submitted
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Temperature dependence of angle-resolved photoemission of the crystalline topological insulator $\text{Pb}_{1-x}\text{Sn}_x\text{Se}(111)$ OLIVER RADER, PARTHA S. MANDAL, Helmholtz-Zentrum Berlin, GUNTHER SPRINGHOLZ, GUNTHER BAUER, VALENTYN VOLOBUIEV, Johannes-Kepler-Universitt Linz, ANDREI VARYKHALOV, EVANGELOS GOLIAS, JAIME SNCHEZ-BARRIGA, Helmholtz-Zentrum Berlin — The system $\text{Pb}_{1-x}\text{Sn}_x\text{Se}$ is a topological insulator protected by mirror symmetry. Angle-resolved photoemission investigations have so far been concentrating on (100) surfaces of bulk single crystals. Here, we systematically study (111) epitaxial films under variation of the Sn concentration (10

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