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Title: Inverse photoemission and photoemission spectroscopic studies on sputter-annealed Ni-Mn-Sn and Ni-Mn-In surfaces

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Highlight

Comparison of inverse photoemission spectra and Korringa–Kohn–Rostoker method calculation show dominant feature is related to Mn 3d-like states.

The changes in the composition dependent ultraviolet photoemission spectra reveal the change in degree of Ni 3d and Mn 3d band hybridization.

Rigid band shift between Ni₂MnIn and Ni₂MnSn is observed because of band filling, due to increase in the number of 5p electrons from In to Sn.

Mn 2p and 3s core-level reveal unambiguous existence of exchange splitting in both the materials.

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