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Note generali	Doctoral thesis accepted by the Max Planck Institute for chemical physics of solids, Dresden, Germany.
Nota di contenuto	Introduction -- Angle Resolved Photoemission -- Theory and Models -- Bulk States in PtCoO ₂ and PdCoO ₂ -- Coupling of Metallic and Mott-insulating states in PdCrO ₂ -- Rashba-like Spin-Split Surface States -- Conclusions and Outlook -- Appendices.
Sommario/riassunto	<p>This thesis describes the results of angle resolved photoemission spectroscopy experiments on delafossite oxide metals, and theoretical work explaining these observations. The study was motivated by the extraordinarily high conductivity of the non-magnetic delafossites PdCoO₂ and PtCoO₂, the measurement of whose electronic structure is reported and discussed. Two unexpected effects were observed in the course of the investigation; each is described and analysed in detail. Firstly, a previously unrecognised type of spectroscopic signal, allowing the non-magnetic probe of photoemission to become sensitive to spin-spin correlations, was observed in the antiferromagnetic PdCrO₂. Its origin was identified as the Kondo-like coupling of itinerant and Mott insulating electrons. Furthermore, surface states exhibiting an unusually large Rashba-like spin-splitting were observed on the transition metal terminated surfaces of delafossites. The large inversion symmetry breaking energy scale, a consequence of the unusual structure of the surface layer, is identified as the origin of the effect.</p>