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【114】 Cu₃Au(111) - ordering/disordering & potential for cobalt island growth

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The growth of thin films and nanostructures on solid surfaces is governed by the substrate structural properties and lattice matching. In this respect, metallic alloys can offer an interesting alternative to conventionally utilized pure metal substrates due to a larger flexibility in the effective lattice parameter. In our work we investigate the structural and electronic properties of Cu₃Au(111) surface by means of STM and nc-AFM. Furthermore, we demonstrate the crystal's potential as a substrate for the growth of cobalt islands as an alternative to Co/Cu(111), for which we explore their structure and characterize their magnetic properties.

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