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Title: Neutron reflectivity of electrodeposited thin magnetic films

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Highlights

- Electrodeposited magnetic bi-layers were measured by polarised neutron reflectivity
- When growing a CoNiCu alloy from a single bath a Cu rich region is initially formed
- This Cu rich region is formed in the first layer but not subsequent ones
- Ni deposition is inhibited in thin film growth and Co deposits anomalously
- Alloy magnetism and neutron scattering length give a self-consistent model

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