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【221】Real-time MOKE measurements of CoTMPP on magnetic Ni/Cu(110)-(2x1)O

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In this work, we report the extension of our setup by combining a sinusoidal modulation of the magnetic field with the synchronous detection of the reflectance difference spectroscopic MOKE (RD-MOKE) signal which allows recording hysteresis loops continuously as a function of coverage, time or temperature. We illustrate the capabilities of our setup for Ni thin films grown on a Cu(110)-(2x1)O surface and the subsequent deposition of cobalt tetramethoxyphenylporphyrin (CoTMPP) thin layers. The adsorption of the molecules induces characteristic changes in the magnetic properties that are monitored as a function of the coverage and temperature, revealing the decrease of the Curie temperature upon CoTMPP deposition on Ni films with different thicknesses.

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