

„Freezing“ of complex domain patterns by antiferromagnetic exchange bias

In-situ magneto-optical microscopy and heating of a sample consisting of ferromagnetic and antiferromagnetic materials enables the local control of the exchange bias. Locally modulated exchange bias has been realized before by more complex means [1]. Tailoring the domain structure allows for a variable and potentially reconfigurable control of the exchange bias. The student *will* learn imaging with an adapted optical microscope as well as working with various image processing tools.

[1] J. Trützscher et al., Scientific Reports 6, 30761 (2016)

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