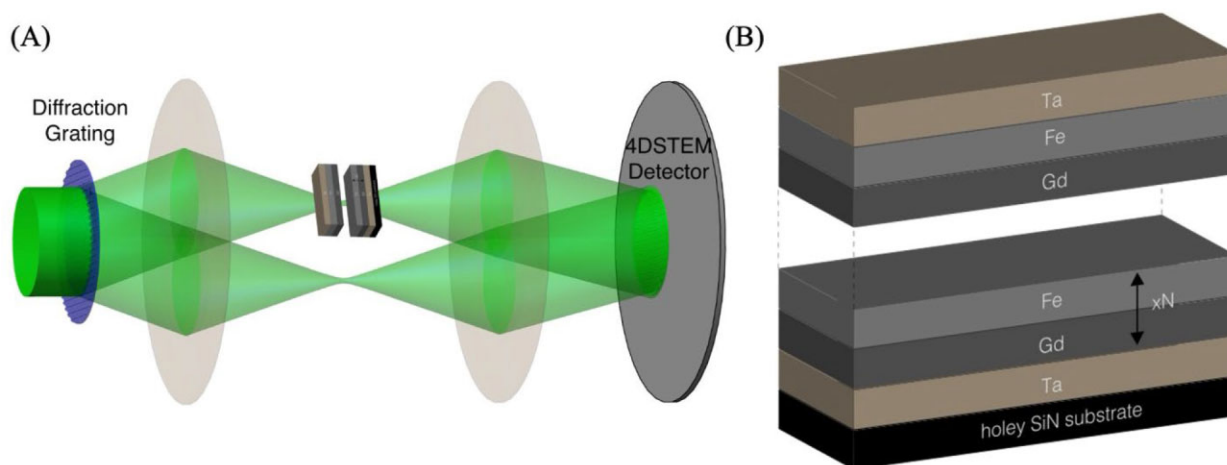


Lorentz Scanning Transmission Electron Microscopy Holography (LSTEMH) Measurement of Domain Walls in Fe/Gd Multilayers

Andrew Ducharme, William Parker, Fehmi Sami Yasin, Xiuzhen Yu, Benjamin McMorran





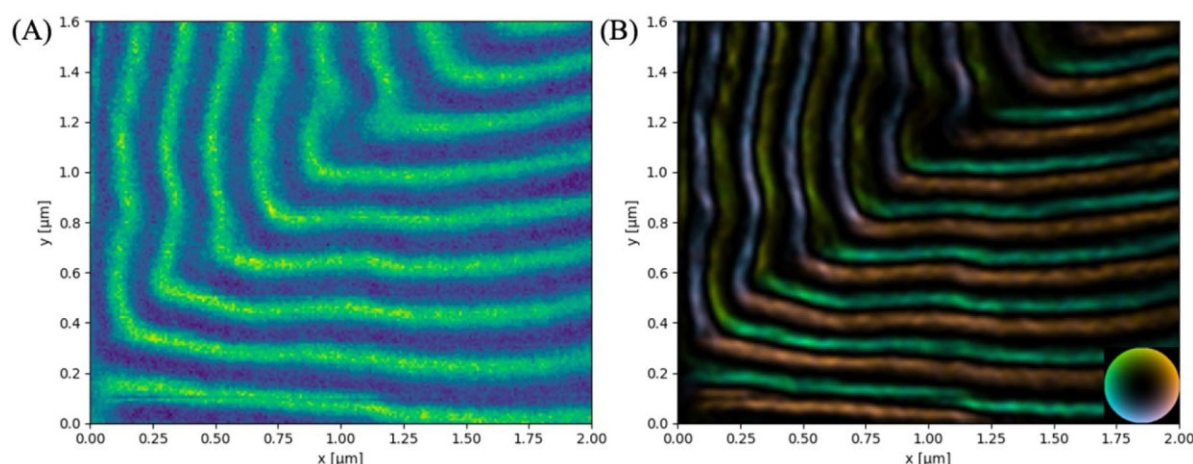


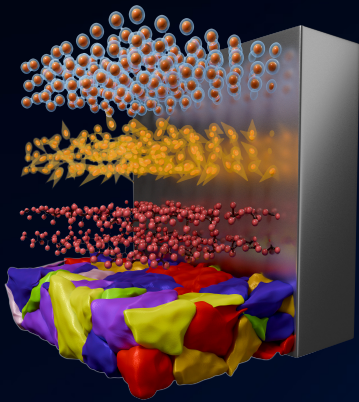
Fig. 2. STEMH measurement of magnetic domain walls in Fe/Gd multilayers. (A) depicts the phase acquired by transiting electrons and (B) depicts the in-plane magnetic induction, with color representing direction and brightness representing amplitude.

References

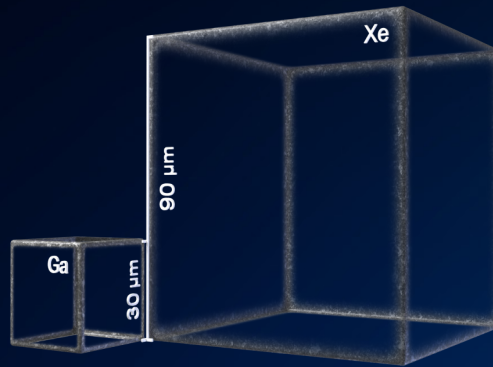
1. Z Chen *et al.*, *Nature Nanotechnology* 17 (2022), p. 1165. <https://doi.org/10.1038/s41565-022-01224-y>
2. A McCray *et al.*, *Physical Review Applied* [Online] 15, 044025 (2021), <https://link.aps.org/doi/10.1103/PhysRevApplied.15.044025>
3. F S Yasin *et al.*, *Nano Letters* 18 (2018) p. 7118. <https://doi.org/10.1021/acs.nanolett.8b03166>
4. A Greenberg *et al.*, *Microscopy and Microanalysis* (2019), p. 96.
5. A Greenberg in “The Application of Interferometric Electron Microscopy for Nanomagnetic Imaging”, (University of Oregon, Eugene) p.1.
6. The authors gratefully acknowledge the help of Jim Ciston configuring the TEAM I instrument. This material is based upon work supported by the National Science Foundation (NSF) under Grants Nos. 2012191 and 2105400. *Work at the Molecular Foundry was supported by the Office of Science, Office of Basic Energy Sciences, of the U.S. Department of Energy under Contract No. DE-AC02-05CH11231.*

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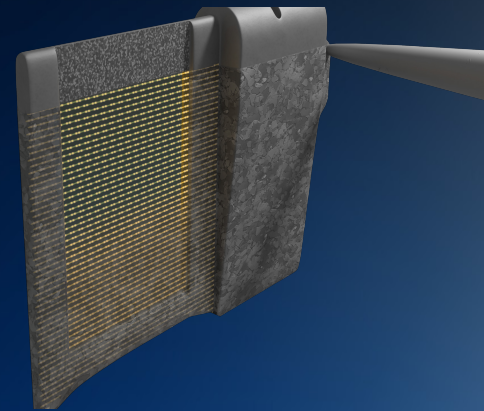
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