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【842】Photoemission Electron Microscopy Studies of Dynamics in Dipolar-Coupled Arrays of Nanomagnets

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One of our primary areas of research is artificial spin ice, which consists of specific arrangements of nanomagnets that display analogous behavior to their real crystal counterparts such as the rare-earth Pyrochlore compounds. We have earlier investigated static/quasi-static responses of well-known structures, such as artificial square and kagome spin ices, and our current efforts are on probing for magnetization dynamics. Frustration, when combined with topological defects, leads to dynamics that are geometry specific. We investigate the temperature dependent response of the nanomagnet arrays using Photoemission Electron Microscopy.

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