

Physics Colloquium, St. Francis Xavier University

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Magnetism in thin films: an overview

Recently, metamaterials have been used to replicate models of magnetic systems and, thereby, to open new possibilities for even closer interaction between theory and experiment. Following a summary of some metamaterial properties, this talk will review some recent experimental work on magnetic thin films including studies of conventional thin films and studies of metamaterial model systems. After a synopsis of theoretical studies of non-equilibrium systems and their relevance to the reviewed experimental work, the talk concludes by identifying some still open questions.