

マテリアルサイエンス系セミナー(第11回)

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Spin dynamics of artificial spin-ice systems

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日時: 平成28年12月1日(木) 16:00~17:00

場所: マテリアルサイエンス系研究棟IV棟8階 中セミナー室

講演要旨: Frustrated magnetic systems, such as spin ices, have been of interest for a long time. Artificially structured spin-ice lattices offer the unique opportunity to engineer interactions between the elements by their geometric and magnetic properties and orientation. Although the exploration of spin-ice systems would be a fascinating playground to investigate how specific magnetization states of individual islands or defects would affect the collective spin dynamics, there are only few works reported on dynamics in these kinds of structures in the high-frequency regime.

Here, we present results on spin dynamics of artificial spin-ice lattices made of permalloy ($\text{Ni}_{80}\text{Fe}_{20}$).

講演者略歴: 03/14 – present, Postdoctoral Researcher, Argonne National Laboratory

12/13 – 02/14 Visiting Researcher, Federal University of Pernambuco

04/12 – 06/12 Visiting Researcher, Institute for Materials Research, Tohoku University

参加申込・予約は不要です。直接会場にお越しください。

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