

Seminar Odjela za fiziku

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Jezik: engleski

A new correlation - M-type hexaferrites

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Abstract

M-type hexaferrites are a class of materials with the general formula $AB_{12}O_{19}$ that possess unique dipolar properties. In this seminar I will present a novel type of correlation phenomena that has been discovered in M-type hexaferrites. This correlation phenomena connects electrical transport with magnetic domain-wall dynamics. These two properties have no apparent connection a priori rendering this phenomena exotic. The correlation will be discussed from few experimental points of view. An initial interpretation will be given, with a plan of the future research.