

Modeling of heat effects in ferromagnetic materials.

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SUMMARY

In this presentation, we will present a modeling of heat effects in ferromagnetic materials. The approach is based upon an upscaling from the microscopic scale to the mesoscopic scale. We present here the microscopic part through the description of the behavior of assemblies of magnetic momentums. We show the link between the microscopic scale and mesoscopic scale and describe the analysis of a the dynamic of a single pertubated momentum.

Keywords: ferromagnetic materials, Landau-Lifschitz equations, multiscale effects

AMS Classification: .

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