



Contribution ID: 381

Type: **Presentation**

A Rough Guide to Nanomagnetism

The information revolution, which has modified our way of living over the last few decades, has occurred due to the restless exponential growth of information amount that can be processed, stored, and transferred per unit time and unit area of relevant devices. Nanomagnetism is becoming a very important research area in past decades due to its keyrole in this revolution. The main goal of Nanomagnetism is to gain knowledge on spin-dependent phenomena, and to exploit them for new functionalities. This talk will present a review of some of the current developments of nanomagnetism and expose some of the future trends.

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Track Classification: Track A - Condensed Matter Physics and Material Science