

第 11 回 CSIS セミナー
第 80 回ナノ・スピン工学研究会
半導体スピントロニクス研究室講演会の開催について

日 時： 平成 27 年 10 月 6 日（火） 17:00～

場 所： 電気通信研究所 ナノ・スピン総合研究棟 4 階 401 号室

講 師： 仲谷 栄伸 先生（電気通信大学 情報理工学部教授、

東北大学電気通信研究所客員教授）

講演題目： **Micromagnetic Simulation**

概 要：

Micromagnetic is the researching field to analyze the magnetization distribution and their dynamics in nanoscale magnetic materials. In general, it is very difficult to obtain the analytic form of the magnetic energy in the magnetic materials, a computer simulation is required to solve the problems in most cases. The first micromagnetic simulation was performed by Brown and Labonte in 1960s. Because of the limitation of the calculation speed of the computers, there were only a few works until 1980s. However by the progresses of the calculation methods and the speed up of the computers, it is used in many areas such as nanospintronics, magnetic recording, and hard magnet, etc. to analyze the experimental results and to design the nanoscale magnetic devices now. In the lecture, simulation methods, problems of the simulations, comparison with the experimental results, and a recent result will be presented.

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問い合わせ先：電気通信研究所 大野研・金井（片平 5554）

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