

# GP-Spin & 物理学教室

## 物性コロキウム

日時：2016年9月1日(木) 16:30-18:00

場所：理学研究科合同B棟745号室 (745, Science complex B)

講師：Prof. Adam Micolich (University of New South Wales, Australia)

題目：Novel materials and methods for making nanoscale gate structures in nanowire transistors

概要：

I will talk about our recent work on advanced gating structures for nanowire transistors. The initial focus will be traditional oxide/metal-based formulations for making horizontal nanowire transistors with multiple, independent wrap-gate segments. I will then look at a more innovative materials approach using electron-beam processible polymer electrolytes as a simple way to enact wrap-gating via mobile ions in the polymer electrolyte. These can be used to enact external 'ionic' doping of nanowires for low temperature applications and be used to build hybrid ionic-electronic circuit elements like inverters with potential for low frequency ion-to-electron transduction for biological sensing applications.

連絡先：平山 祥郎 (795-3880)

☆ 16:15 よりコーヒー、紅茶、お菓子を用意します。カップを持ってお集まり下さい。

世話人：岩井 伸一郎 (795-6423) 松井 広志 (795-6604)  
村島 隆浩 (795-5718) 泉田 渉 (795-6475)