

## 平成18年度第3回 VBL セミナー

日時： 平成18年11月13日(月) 13:30~14:30

場所： 名古屋大学フロンティアプラザ(VBL) 3階ミーティングルーム

講師： 劉 曉峻 (VBL 招聘研究員) 南京大学教授

題目： Photoinduced effects in Perovskite ferromagnetic manganite films

要旨：

By controlling the arrangement of atomic/molecular layers on the atomic and nanometer scales, electronic and magnetic properties are drastically changed, which has been demonstrated for the high  $T_c$  superconductivity and colossal magnetoresistance (CMR effect) in transition-metal oxides with a Perovskite type structure. On the other hand, in some strongly correlated Perovskite type transition-metal magnetic oxides, electronic, magnetic and optical properties can be controlled by light, which has currently been attracting interest from the viewpoint of fundamental physics and technological application to new devices. In my talk, photoinduced effects on the transmission, resistance and the critical phenomena will be presented in the Perovskite ferromagnetic manganite films. The mechanism of the photoinduced effects will be discussed.

問い合わせ先：

名古屋大学大学院工学研究科  
マテリア理工学専攻応用物理学分野  
中村新男  
Tel:052-789-4450、Fax:052-789-5316  
E-mail: nakamura@nuap.nagoya-u.ac.jp