

放射光セミナー

2010 年 4 月 2 日 (金) 14 時 00 分～

物性研究所本館 6 階 A614

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Low-D Magnetism From an Empty States`Point of View

The electronic structure of ferromagnetic solids is characterized by an imbalance of electrons with spin magnetic moment parallel and antiparallel to the magnetization direction. This spin-dependent occupation is clearly reflected by the electron states at the Fermi level. As a consequence, electron states in the vicinity on both sides of the Fermi level are of interest to get the full picture. Furthermore, any spin-dependent scattering process like transport phenomena or excitation processes relies on empty states. Inverse photoemission and two-photon photoemission with spin resolution are techniques well suited to investigate questions concerning unoccupied states. In this seminar, I will give an update on the current status of these two techniques and present topical research problems tackled by them.

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