

# 凝縮系物理学ゼミナール

日時：12月3日（水）13：30～

場所：理学部5号館 413号室

講演者：Prof. Thomas Pruschke 氏  
(Goettingen University)

## 「Magnetic impurities in superconductors」

The study of magnetic impurities in BCS superconductors has been a very active field until some 30 years ago. In recent years, the interest in quantum dots coupled to superconducting leads has renewed the interesting problem, but the focus there mainly is on transport, i.e. dynamical properties. I present a study of thermodynamic properties of such systems using numerical renormalization group to tackle the competition and interplay of the energy scales  $T_C$  and  $T_K$ . In the vicinity of the transition from Kondo to local moment physics we observe very characteristic structures in the effective moment, entropy and in particular specific heat. We discuss possible experimental relevance of these novel features.