

日本物理学会北海道支部会講演会 主催

第176回エンレイソウの会 共催

場 所： 北海道大学理学部2号館211号室

日 時： 2012年9月10日 16:00-17:00

講演者： Prof. Stefan Suellow

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題 目： 『 **Not-so-ordinary insights into ordinary UPt₂Si₂**
- **Surprises in high fields** 』

要 旨： For years now, magnetism in uranium heavy fermion compounds was thought to be reasonably well understood. A case in point is UPt₂Si₂, a material which was even considered to be describable within a localized crystalline electric field picture. However, recent experiments indicate that this view is inappropriate. Here, I will review the results of new investigations on this material, with an emphasis on studies in high magnetic fields. These results will be discussed in context of new electronic structure calculations, this way illustrating how our understanding of magnetism in such correlated electron system has evolved in recent years, and point out open issues and implications.

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