Title: Not-so-ordinary insights into ordinary UPt$_2$Si$_2$
- Surprises in high fields

Abstract: For years now, magnetism in uranium heavy fermion compounds was thought to be reasonably well understood. A case in point is UPt$_2$Si$_2$, 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.