

## Electronic Liquid Crystals

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Title: Electronic Liquid Crystals

Speaker: A. P. Mackenzie, Max Planck Institute for Chemical Physics of Solids

Where: Sala de conferencias módulo 00, Facultad de Ciencias.

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ABSTRACT:

**A** major development in condensed matter physics over the past twenty years has been the study of collective electronic states that organise into symmetry-lowered configurations similar to those seen in liquid crystals. Empirically, these are often seen in the vicinity of unconventional superconductivity, further heightening interest in the topic. In this talk I will give a kind of ‘progress report’ on where things stand. I will emphasise that although we know much more about these states than we used to, the key outstanding questions are sufficiently important that this will remain a central field of research for the foreseeable future.