

SES05-2005-020023

Abstract for an Invited Paper
for the SES05 Meeting of
the American Physical Society

Transforming organic superconductors, magnets, and insulators with high magnetic fields

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Accessible high magnetic fields are ideally matched with the energy scales of electronic and magnetic structure in organic charge transfer complexes. In this presentation some of the more dramatic (and also sometimes controversial) examples of how various ground states are probed, are changed, or are induced in high magnetic fields will be discussed. Avenues to push high field probes of the unusual ground states of these material well beyond conventional transport and magnetization methods will also be discussed.