

π and d Electron Interactions in the Perylene and Lambda BETS Systems

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This presentation will consider the interaction of π and d electrons in two very important charge transfer complexes, λ -(BETS)₂FeCl₄ studied by ⁷⁷Fe Mossbauer, and (Per)₂[Pt(mnt)₂] by ¹⁹⁵Pt NMR. In each case, spectroscopic methods have been employed to probe the d-electron site revealing new aspects of the behavior of the localized moment in the vicinity of their respective metal-insulator transitions. The results will be compared with other complementary measurements such as transport and thermal studies.

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