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The Spin Dependent Near Fermi-Edge Structure of M[TCNE] Magnets ANTHONY CARUSO, University of Missouri - Kansas City, KONSTANTIN POKHODNYA, North Dakota State University — M[TCNE] organic-based magnets are an important class of solids for both application and magnetic exchange and correlation study. The detailed spin polarized occupied electronic structure of M[TCNE] magnets has eluded description from conventional ligand field theory, the results of elementally- or spin-sensitive photon and electron spectroscopies as well as spin resolved density functional calculations. This talk will present heuristic models for M=V, Fe and Ni in the context of the local physical structure and all electronic structure studies completed to date, but with a new twist to the onsite and nearest neighbor Coulomb repulsion based correlation.

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