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### **Contrasting Scenarios for Organic Spin Liquids**

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The ultimate ground state of organic spin-liquid candidates, such as  $\kappa$ -(ET)<sub>2</sub>Cu<sub>2</sub>(CN)<sub>3</sub> has long remained elusive. While a variety of apparently conflicting experimental results have favored various scenarios over the years, a comprehensive view has yet to emerge. It has long been thought that conventional magnetic order is destabilized by strong ring-exchange, occasioned by proximity to the Mott transition. Such interactions are known to promote either chiral spin-liquid phases or unconventional spin-vortex order if sufficiently strong. On the one hand, this scenario is now supported by the recent observation [1] of spin-vortex order in the related compound  $\kappa$ -(BETS)<sub>2</sub>Mn[N(CN)<sub>2</sub>]<sub>3</sub>, which definitely confirms the importance of ring-exchange. On the other hand, there is mounting evidence for an important role of disorder in the low-temperature response [2]. Here, we contrast these scenarios in view of recent experimental results. [1] Phys. Rev. Lett. 127, 147204 (2021). [2] Nat. Commun. 10, 2561 (2019).