

Abstract Submitted  
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**Changing the Electron Count in Spin Liquids<sup>1</sup>** ZACHARY KELLY,  
TYREL MCQUEEN, Johns Hopkins Univ — Materials which possess the resonating valence bond (RVB) “spin-liquid” state have been long sought after by scientists due to their predicted exotic properties. Several materials have been identified as potential spin liquid candidates and laboratory studies have only just begun to provide insight into the properties of these materials and their theoretical description. Recently theoretical calculations predict doping of a spin liquid could lead to a rich and unique phase diagram including complex magnetic states, Dirac metal behavior, and superconductivity. We report the results of structural and physical property characterizations of newly synthesized doped candidate spin liquids.

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