Experimental Studies on Single Crystal Samples of Spin Liquid Materials

TIAN-HENG HAN, University of Chicago, YOUNG LEE, Massachusetts Institute of Technology, JOHN SCHLUETER, Argonne National Laboratory, THOMAS ROSENBAUM, University of Chicago, ERIC ISAACS, Argonne National Laboratory — Frustrated antiferromagnetism on spin lattices with triangular geometries receives increasing attention due to the promise of RVB spin liquids. I will discuss about recent thermodynamic and scattering studies on highly frustrated magnets, such as triangular kappa-(ET)$_2$Cu$_2$(CN)$_3$ and kagome ZnCu$_3$(OH)$_6$Cl$_2$. It was only until recent years that large crystal samples have been successfully grown for leading spin liquid candidates. Latest experimental studies will be introduced.