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**Barlowite: a new mother compound of spin liquids** TIAN-HENG HAN, University of Chicago, JOHN SINGLETON, Los Alamos National Laboratory, JOHN SCHLUETER, Argonne National Laboratory — Experimental investigations of spin liquids start with finding suitable materials. Existing candidate compounds have limitations, even though the observation of spinons in herbertsmithite has marked a breakthrough. I will introduce a new mother compound of kagome spin liquids, barlowite, with its properties characterized using thermodynamic techniques. The advantages of barlowite will be discussed.

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