

Abstract Submitted  
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**Local probe study of Sr-Vesignieite** AIM VERRIER, JEFFREY QUILLIAM, Universit de Sherbrooke, FABRICE BERT, PHILIPPE MENDELS, Laboratoire de physique des solides, Universit Paris-Sud XI, DAVID BOLDRIN, ANDREW WILLS, University College London — We discuss the results of local probe measurements (NMR and  $\mu$ SR) on a powder sample of  $\text{SrCu}_3\text{V}_2\text{O}_8(\text{OH})_2$  (Sr-Vesignieite)[D. Boldrin and A. S. Wills, J. Mat. Chem. C 3, 4308(2015)], a spin-1/2 kagome lattice with antiferromagnetic interactions.  $^{63,65}\text{Cu}$  zero-field NMR and  $^{51}\text{V}$  NMR (in-field) reveal static magnetism at low temperatures and allow us to measure the intrinsic local susceptibility of the kagome lattice. Muon spin rotation ( $\mu$ SR) experiments also demonstrate static magnetism at low  $T$ . We discuss the possible role of the Dzyaloshinsky-Moriya interaction and the proximity of this material to a quantum critical point between ordered and quantum spin liquid phases.

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