

Abstract Submitted  
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**CEF groundstate of the frustrated quantum magnets  $\text{SrRE}_2\text{O}_4$  ( $\text{RE} = \text{Dy}, \text{Ho}$ )** A. DESILETS-BENOIT, A. D. BIANCHI, Dep. de physique, Université de Montreal, Montreal, QC, Canada, V. POMJAKUSHIN, B. R. HANSEN, LNS, PSI, Villigen, Switzerland, M. KENZELMANN, LDM, PSI, Villigen, Switzerland, R. J. CAVA, Dept. Chemistry, Princeton University, Princeton, NJ, USA — We have measured the crystalline electric field (CEF) niveaus of the magnetic ions in the frustrated quantum magnets  $\text{SrRE}_2\text{O}_4$  with  $\text{RE} = \text{Dy}$  and  $\text{Ho}$  by inelastic neutron scattering.  $\text{SrRE}_2\text{O}_4$  crystallizes in a *pnam* structure, which as four in-equivalent rare earth sites, leading to a large degree of geometrical frustration. Fitting a CEF level scheme to the experimental data has allowed us to determine the CEF ground state of this system.

Andrea Bianchi  
Dep. de physique, Université de Montreal, Montreal, QC, Canada

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